EXHIBIT 11

Case 5:14-cv-05344-BLF Document 512-8 Filed 09/06/16 Page 2 of 122 HIGHLY CONFIDENTIAL - ATTORNEYS EYES ONLY

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UNITED STATES DISTRICT COURT
  1
  2
                 NORTHERN DISTRICT OF CALIFORNIA
  3
                         SAN JOSE DIVISION
 4
 5
      CISCO SYSTEMS, INC.,
 6
                    Plaintiff,
                                  ) Case No.
 7
              vs.
                                  ) 5:14-cv-05344-BLF (PSG)
 8
      ARISTA NETWORKS, INC.,
 9
                    Defendant.
10
11
       *** HIGHLY CONFIDENTIAL - ATTORNEYS' EYES ONLY ***
12
13
14
15
         VIDEOTAPED DEPOSITION OF RAMANATHAN KAVASSERI
16
                       Palo Alto, California
17
                    Tuesday, February 23, 2016
18
                            Volume I
19
20
21
22
     Reported by:
     CARLA SOARES
23
     CSR No. 5908
24
     Job No. 2216982
25
     Pages 1 - 195
                                                        Page 1
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Case 5:14-cv-05344-BLF Document 512-8 Filed 09/06/16 Page 3 of 122 HIGHLY CONFIDENTIAL - ATTORNEYS EYES ONLY

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UNITED STATES DISTRICT COURT
                                                               1 APPEARANCES (Continued):
          NORTHERN DISTRICT OF CALIFORNIA
  2
  3
             SAN JOSE DIVISION
                                                               3 For the Witness:
  5 CISCO SYSTEMS, INC., )
                                                                       FARELLA BRAUN & MARTEL LLP
                                                               5
                                                                        BY: RODERICK M. THOMPSON, Attorney at Law
           Plaintiff, )
  6
                                                               6
                                                                       Russ Building
                  ) Case No.
                                                               7
                                                                       235 Montgomery Street
  7
                  ) 5:14-cv-05344-BLF (PSG)
                                                               8
                                                                       San Francisco, California 94104
                                                               9
                                                                       415.954.4400
  8 ARISTA NETWORKS, INC., )
                                                              10
                                                                       rthompson@fbm.com
  9
           Defendant. )
                                                              11
                                                              12
 10
                                                              13 ALSO PRESENT: Ramon Peraza, Video Operator
 11
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 12
 13
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 14
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 15
                                                              17
          VIDEOTAPED DEPOSITION OF RAMANATHAN
 16
                                                              18
 17 KAVASSERI, Volume I, taken on behalf of Defendant,
                                                              19
 18 at 601 California Avenue, Palo Alto, California,
                                                              20
 19 beginning at 10:09 a.m., and ending at 4:26 p.m., on
20 Tuesday, February 23, 2016, before CARLA SOARES,
                                                              21
21 Certified Shorthand Reporter No. 5908.
                                                              22
22
                                                             23
23
                                                             24
24
25
                                                             25
                                                      Page 2
                                                                                                                   Page 4
 1 APPEARANCES:
                                                              1
                                                                            INDEX
 2
                                                              2 WITNESS
                                                              3 RAMANATHAN KAVASSERI
                                                                                                       EXAMINATION
 3 For the Plaintiff:
                                                                Volume I
         QUINN EMANUEL URQUHART & SULLIVAN, LLP
                                                              4
 5
         BY: MARK TUNG, Ph.D., Attorney at Law
                                                              5
                                                                        BY MR. SANTACANA
                                                                                                       10
 6
         555 Twin Dolphin Drive, 5th Floor
                                                              6
                                                                        BY MR. TUNG
                                                                                                  186
 7
         Redwood Shores, California 94065
                                                              7
        650.801.5016
                                                              8
                                                                            EXHIBITS
         marktung@quinnemanuel.com
                                                              9 NUMBER
                                                                                 DESCRIPTION
                                                                                                       PAGE
10
                                                             10 Exhibit 325 Ramanathan R. Kavasseri's
                                                                                                        22
11
                                                             11
                                                                       Responses and Objections to
12 For the Defendant:
                                                             12
                                                                       Defendant Arista Networks'
13
        KEKER & VAN NEST LLP
                                                             13
                                                                       Subpoena to Testify at a
14
        BY: EDUARDO E. SANTACANA, Attorney at Law
                                                             14
                                                                       Deposition
15
        BY: RYAN WONG, Attorney at Law
                                                             15
16
        633 Battery Street
                                                             16 Exhibit 326 LinkedIn page for Ram
                                                                                                       24
17
        San Francisco, California 94111
                                                             17
                                                                       Kavasseri
18
        415.391.5400
                                                             18
19
        esantacana@kvn.com
                                                             19 Exhibit 327 Document headed "A Simple
                                                                                                          52
20
        rwong@kvn.com
                                                            20
                                                                       Network Management Protocol,"
21
                                                            21
                                                                       dated 8/1988,
22
                                                             22
                                                                       Bates ARISTANDCA00022432 - 2464
23
                                                            23
24
                                                            24 Exhibit 328 Document headed "Event MIB."
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                                                            25
                                                                       dated 10/2000
                                                     Page 3
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Case 5:14-cv-05344-BLF Document 512-8 Filed 09/06/16 Page 4 of 122 HIGHLY CONFIDENTIAL - ATTORNEYS EYES ONLY

23 Reference," dated 10/2009, 23 At this time, Counsel, please identify 24 yourselves for the record and state whom you	ſ	THORE I CONTIDENTIAL	_		
3	1	EXHIBITS		1 REFERENCED EXHIBITS	
4	2	NUMBER DESCRIPTION PAGE		2 (Not attached)	
4	3	Exhibit 329 Document headed "Commands for 94		3 Exhibit/Page	
5	4	which Cisco listed Ramanathan	1		
6 in Cisce's response to Interrogatory 7 No. 16, Exhibit F (January 12, 2016)* 8 9 Exhibit 330 Document labeled "Ram Kavasseri, 101 10 Garry Horoupian," dated 2/8/06, 11 Bates CSI-CLI-00682250 - 2314 12 12 13 Exhibit 331 Document labeled "Parser Police: 122 14 Where can we go from here?" 15 Bates CSI-ANI-00031041 - 0032 16 17 Exhibit 332 Document leaded "Hot ICE Product 129 18 Requirements Document," 19 Bates CSI-CLI-0066262 - 2085 19 20 21 Exhibit 333 Document headed "Unprintable 132 22 File," 23 first page Bates CSI-CLI-00358160 24 25 Page 6 Page 6 Page 6 Page 8 1 Palo Alto, California 09-21-40 24 25 Page 8 1 Palo Alto, California 09-21-40 25 Page 8 1 Palo Alto, California 09-21-40 26 THE VIDEO OPERATOR: Good morning, We are 7 on the record at 10:09 a.m. 4 Security Model (USNM) for version 3 of the Simple Network Management 4 of Protocol (SNMP'93)," dated 1/1998 3 Exhibit 335 Document headed "View-based 151 Access Control Model (VACM) for the Simple Network Management 10 the Simple Network Management 11 Protocol (SNMP)*," dated 1/1998 12 Exhibit 335 Document headed "An Architecture 154 for Describing SNMP Management 15 Frameworks," dated 1/1998 12 Exhibit 337 Document headed "One Number 159 Frameworks," dated 1/1998 15 Frameworks," dated 1/1998 16 ENC-28473," 19 Bates CSI-CLI-00609071 - 9083 20 Exhibit 338 Document headed "Cisco IOS 172 2 Network Management Command 23 Reference," dated 10/2009, Bates CSI-CLI-00319765 - 1101 24 Sethibit 338 Document headed "Cisco IOS 172 25 Network Management Command 22 Network Management Command 23 Reference," dated 10/2009, Bates CSI-CLI-00319765 - 1101 25 Sethibit 338 Document entitled "Cisco IOS 172 2 Network Management Command 23 Reference," dated 10/2009, Bates CSI-CLI-00319765 - 1101 25 Sethibit 338 Document entitled "Cisco IOS 172 2 Network Management Command 22 Secures in Course, please identify 24 yourselves for the record and state whon you 25 represent. 10:10:10:10	5	Kavasseri as 'Author/Originator'		5	
7	6	-	1		
8 9 Exhibit 330 Document labeled "Ram Kavasseri, 101 10 10 Garry Horoupian," dated 2/8/06, 10 10 11 11 12 13 13 Exhibit 331 Document labeled "Parser Police: 122 13 14 15 Bartes CSI-CAI-00682250 - 2314 11 12 13 14 15 Bartes CSI-ANI-00031041 - 0032 15 16 17 Exhibit 332 Document headed "Hot ICE Product 129 18 Requirements Document," 18 18 19 19 19 19 19 19	7	- · · · · · · · · · · · · · · · · · · ·	1		
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1 EXHIBITS 2 NUMBER DESCRIPTION PAGE 3 Exhibit 334 Document headed "User-based 149 4 Security Model (USM) for version 3 5 of the Simple Network Management 6 Protocol (SNMPv3)," dated 1/1998 7 7 on the record at 10:09 a.m. on February 23rd, 2016 8 Exhibit 335 Document headed "View-based 151 9 Access Control Model (VACM) for 10 the Simple Network Management 11 Protocol (SNMP)," dated 1/1998 12 11 Protocol (SNMP)," dated 1/1998 13 Exhibit 336 Document headed "An Architecture 154 14 for Describing SNMP Management 15 Frameworks," dated 1/1998 16 17 Exhibit 337 Document headed "Doc Number 159 18 ENG-28473," 19 Bates CSI-CLI-00609071 - 9083 20 1 Exhibit 338 Document entitled "Cisco IOS 172 21 Exhibit 338 Document entitled "Cisco IOS 172 22 Network Management Command 23 Reference," dated 10/2009, 24 Bates CSI-CLI-00319765 - 1101 25 PROCEEDING S 09:21:40 6 THE VIDEO OPERATOR: Good morning. We are 7 on the record at 10:09 a.m. on February 23rd, 2016. 8 This is the videotaped deposition of Mr. Ramanathan 9 Access Control Model (VACM) for 9 Kavasseri. 10 My name is Ramon Peraza, here with our 10:09:15 11 court reporter, Carla Soares. We're here from 12 Veritext Legal Solutions at the request of counsel 13 for the defendant. 14 This deposition is being held at Wilson 15 Sonsini in Palo Alto. The caption of this case is 10:09:26 16 Cisco Systems, Inc., versus Arista Networks, Inc., 17 Case No. 5:14-cv-05344-BLF (PSG). 18 Please note that audio- and 19 video-recording will take place unless all parties 20 have agreed to go off the record. Microphones are 10:09:50 21 Exhibit 338 Document entitled "Cisco IOS 172 22 Network Management Command 23 Reference," dated 10/2009, 24 Bates CSI-CLI-00319765 - 1101 25 represent. 10:10:00	23	Page 6	2-		ze 8
2 NUMBER DESCRIPTION PAGE 3 Exhibit 334 Document headed "User-based 149 4 Security Model (USM) for version 3 5 of the Simple Network Management 6 Protocol (SNMPv3)," dated 1/1998 7 7	—				
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25 25 represent. 10:10:00	23		23	At this time, Counsel, please identify	
	24	Bates CSI-CLI-00319765 - 1101	24	yourselves for the record and state whom you	
Page 7 Page 9	25		25		
		Page 7		Page	; 9

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1 45					
1 time y	ou worked at Cisco?	10:59:08	1	standard by the IETF and is developed by multiple	11:02:13
2 A	The definition of "team" here is vague.		2	2 vendors, and everybody implements that. And many	
3 Q	Okay. And I apologize. I should have		3	3 management protocols use it as a standard way of	
4 asked	you that question.		4	querying information from devices that are	
5	So you said that when you first joined	10:59:20	5	5 networked. 11:02:36	
6 Cisco,	you joined the SNMP team. What did yo	ou mean	6	Q Do you know when SNMP was developed as:	111
7 by that	?		7	industry standard protocol?	
8 A	I joined a team whose primary		8	A That's could you rephrase that	
	sibility was working to develop and main	ntain	9	question, please?	
		0:59:34	10	Q Sure. 11:03:37	
	Does that team have a name?		11		
12 A	It's so long ago, I don't remember the		12	when you started working at Cisco?	
	name apart from probably it was SNMP.		13	· · · · · · · · · · · · · · · · · · ·	
	It probably was not SNMP?		14	<i>,</i>	
-	It probably was SNMP for all I know.	10:59:51	1	industry standard protocol? 11:03:	59
	It probably was SNMP?	10.03.01	16	•	
-	Yeah.			believe that's a valid question.	
	Did that team have responsibilities other		18	•	
-	plementing the SNMP protocol?		10	•	
	Yes. 10:59:5	0		over whether a protocol is industry standard or not.	11:04:15
				·	11.04.13
	What other responsibilities did it have?		21		
	Its responsibilities included reviewing	- 41	22	, , , , , , , , , , , , , , , , , , , ,	
	ons to the SNMP protocol submitted by	otner		standard only after companies pick it up and support	
	ol teams within Cisco.	11.00.00	24		11.01.05
25 Q	Did the team have any other	11:00:29 Page 46	25	Q So SNMP was an industry standard protocol	11:04:25 Page 48
1 respons	ibilities other than that?	11:00:30	1	because multiple vendors used it? 11:0	4:28
2 A	The team was encouraged to participate i	in	2	A Yes, used a compliant version of it.	
	F to define use standards around SNMP:				
		ano į	3	Q Okay. And a compliant version was a	
4 network	management.	and		Q Okay. And a compliant version was a version that complied with the definitions IETF	
	-	and 11:00:47	4		
5 Q.	-		4	version that complied with the definitions IETF provided? 11:04:41	
5 Q.	Any other responsibilities?		4 5	version that complied with the definitions IETF provided? 11:04:41 A Correct.	
5 Q . 6 A i 7 time.	Any other responsibilities? Not that I can recollect easily at this		4 5 6 7	version that complied with the definitions IETF provided? 11:04:41 A Correct. Q And IETF stands, just so we have it on the	
5 Q . 6 A i 7 time. 8 Q	Any other responsibilities? Not that I can recollect easily at this What does SNMP stand for?		4 5 6 7 8	version that complied with the definitions IETF provided? 11:04:41 A Correct.	
5 Q . 6 A i 7 time. 8 Q . 9 A I	Any other responsibilities? Not that I can recollect easily at this	11:00:47	4 5 6 7 8	version that complied with the definitions IETF provided? 11:04:41 A Correct. Q And IETF stands, just so we have it on the record, for Internet engineering task force,	
5 Q 6 A i 7 time. 8 Q 9 A 10 network	Any other responsibilities? Not that I can recollect easily at this What does SNMP stand for? I better nail this one, right? Simple a management protocol.		4 5 6 7 8 9	version that complied with the definitions IETF provided? 11:04:41 A Correct. Q And IETF stands, just so we have it on the record, for Internet engineering task force, correct? A Yes. 11:04:51	
5 Q . 6 A i 7 time. 8 Q . 9 A i 10 network	Any other responsibilities? Not that I can recollect easily at this What does SNMP stand for? I better nail this one, right? Simple management protocol. Okay. And is it fair to say that you	11:00:47	4 5 6 7 8 9 10	version that complied with the definitions IETF provided? 11:04:41 A Correct. Q And IETF stands, just so we have it on the record, for Internet engineering task force, correct? A Yes. 11:04:51 Q You said that you were encouraged or your	
5 Q . 6 A i 7 time. 8 Q . 9 A . 10 network 11 Q . 6 12 first bec.	Any other responsibilities? Not that I can recollect easily at this What does SNMP stand for? I better nail this one, right? Simple management protocol. Okay. And is it fair to say that you ame familiar with the protocol when you	11:00:47	4 5 6 7 8 9 10 11 12	version that complied with the definitions IETF provided? 11:04:41 A Correct. Q And IETF stands, just so we have it on the record, for Internet engineering task force, correct? A Yes. 11:04:51 Q You said that you were encouraged or your team was encouraged to participate in IETF, correct?	
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5 Q . 6 A i 7 time. 8 Q . 9 A i 10 network 11 Q . 6 12 first bec 13 started v 14 A . 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Any other responsibilities? Not that I can recollect easily at this What does SNMP stand for? I better nail this one, right? Simple management protocol. Okay. And is it fair to say that you ame familiar with the protocol when you working at Cisco? That is correct. Okay. While you were working at Cisco.	11:00:47 11:01:17	4 5 6 7 8 9 10 11 12 13 14 15	version that complied with the definitions IETF provided? 11:04:41 A Correct. Q And IETF stands, just so we have it on the record, for Internet engineering task force, correct? A Yes. 11:04:51 Q You said that you were encouraged or your team was encouraged to participate in IETF, correct? A Correct. Q Was there a particular group at the IETF that you were encouraged to participate in, or	1:05:49
5 Q A 6 A 7 time. 8 Q 7 9 A 10 network 11 Q 6 12 first bec 13 started v 14 A 7 15 Q 6 16 did you	Any other responsibilities? Not that I can recollect easily at this What does SNMP stand for? I better nail this one, right? Simple management protocol. Okay. And is it fair to say that you ame familiar with the protocol when you working at Cisco? That is correct. Okay. While you were working at Cisco become familiar with any other routing	11:00:47 11:01:17	4 5 6 7 8 9 10 11 12 13 14 15 16	version that complied with the definitions IETF provided? 11:04:41 A Correct. Q And IETF stands, just so we have it on the record, for Internet engineering task force, correct? A Yes. 11:04:51 Q You said that you were encouraged or your team was encouraged to participate in IETF, correct? A Correct. Q Was there a particular group at the IETF that you were encouraged to participate in, or subject area?	1:05:49
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5 Q 6 A in 7 time. 8 Q 9 A in 10 network 11 Q 12 first becomes started with the control of the cont	Any other responsibilities? Not that I can recollect easily at this What does SNMP stand for? I better nail this one, right? Simple management protocol. Okay. And is it fair to say that you ame familiar with the protocol when you working at Cisco? That is correct. Okay. While you were working at Cisco, become familiar with any other routing s as part of your work? Not that I recall right away, but I'm are based on the nature of my work that I	11:00:47	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	version that complied with the definitions IETF provided? A Correct. Q And IETF stands, just so we have it on the record, for Internet engineering task force, correct? A Yes. 11:04:51 Q You said that you were encouraged or your team was encouraged to participate in IETF, correct? A Correct. Q Was there a particular group at the IETF that you were encouraged to participate in, or subject area? A SNMP. Q Yes? A Yes.	
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5 Q A A A A A A A A A A A A A A A A A A	Any other responsibilities? Not that I can recollect easily at this What does SNMP stand for? I better nail this one, right? Simple management protocol. Okay. And is it fair to say that you ame familiar with the protocol when you working at Cisco? That is correct. Okay. While you were working at Cisco, become familiar with any other routing s as part of your work? Not that I recall right away, but I'm are based on the nature of my work that I ave interacted with multiple protocols. To	11:00:47 11:01:17 11:01:31	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	version that complied with the definitions IETF provided? 11:04:41 A Correct. Q And IETF stands, just so we have it on the record, for Internet engineering task force, correct? A Yes. 11:04:51 Q You said that you were encouraged or your team was encouraged to participate in IETF, correct? A Correct. Q Was there a particular group at the IETF that you were encouraged to participate in, or subject area? A SNMP. Q Yes? A Yes. Q SNMP. Anything else? 11:06 A Not explicitly encouraged, as far as 1	
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5 Q 6 A 7 time. 8 Q 9 A 10 network 11 Q 12 first bec 13 started v 14 A 15 Q 16 did you 17 protocol 18 A 19 pretty st 20 would h 21 specific 22 Q 23 A 24 Q	Any other responsibilities? Not that I can recollect easily at this What does SNMP stand for? I better nail this one, right? Simple management protocol. Okay. And is it fair to say that you ame familiar with the protocol when you working at Cisco? That is correct. Okay. While you were working at Cisco, become familiar with any other routing s as part of your work? Not that I recall right away, but I'm are based on the nature of my work that I ave interacted with multiple protocols. To ones don't jump to mind. s SNMP an industry standard protocol?	11:00:47 11:01:17 11:01:31	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	version that complied with the definitions IETF provided? 11:04:41 A Correct. Q And IETF stands, just so we have it on the record, for Internet engineering task force, correct? A Yes. 11:04:51 Q You said that you were encouraged or your team was encouraged to participate in IETF, correct? A Correct. Q Was there a particular group at the IETF that you were encouraged to participate in, or subject area? A SNMP. Q Yes? A Yes. Q SNMP. Anything else? 11:06 A Not explicitly encouraged, as far as 1 know. Not discouraged, either. So very neutral on	

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r	THOME I COM II	DEITHE	1	TIORNETS ETES UNLT	
1 Q	Sure. 11:37:17			don't recall the features that I was working on, so	11:40:26
2	The functional specifications that you		2	2 I don't recall specifically what I would have done	
3 review	ed when developing SNMP features, would	that	1 3	3 to compare.	
4 specific	cation have been written by someone at Cisc	eo?	1	Q I see.	
5 A	Yes. 11:37:27		5	Was it part of your process in developing	11:40:35
6 Q	And did you were you involved in		1	features to review what other vendors were doing to	
7 writing	any functional specifications?		1 7	implement the same features?	
8 A	Yes, I was.		8	A Other so in the space that we worked	
9 Q	Was that for the features that you were		9	with SNMP, vendors contributed to the IETF docum	ent
10 implem	nenting? 11:37:3	16	1		:40:59
11 A	Yes, it was. Yes, it was.			implementations because they were there telling us	
12 Q	Do you recall right now which functional		1	what they were trying to build. That was the whole	
	cations you may have written?			point of building an industry standard.	
•	Not off the top of my head, no.		14		
	Did the GEM methodology involve reviewing	ng 11:37:57		implementing the protocols as they were being	11:41:11
16 IETF do		_		developed. In a few cases, we would have the	
17 A	As far as I recall, no.		1	implementations before the protocols were released	
	Did you review IETF documents when you		1	because we were helping author the protocol.	
	pplementing SNMP features?		19		
		11:38:12	1	was not possible because they had not done the	11:41:24
21 had any	thing specific to do with an IETF document		21	implementations or released the implementations,	
	s, I would have had to review the document		1	which is why I was being very specific in saying, I	
23 make su	are I was implementing it correctly, "it"		1	don't recall the exact features I was working on.	
	hatever I was working on.		24		
	Okay. And that is something you would	11:38:26 Page 62	25	what I was working on and depending on whether	11:41:3 Page 6
l have rev	viewed an IETF document relating to a featu	re 11:38:31	1	somebody had done something in the field.	11:41:40
2 you wer	re implementing before you implemented the)	2	Q 1 understand.	
3 feature;	is that right?		3	Who else worked on the team that was	
4 A I	f there was an IETF document associated		4	implementing SNMP features at Cisco?	
5 with wh	at I was working on and I was required to	11:38:41	5	A I don't reinember all the names, but my	11:41:58
6 impleme	ent part or the whole part of that IETF		6	manager was John Hopprich. My technical lead and	
7 docume	nt, then yes, I would have reviewed that IET	F	7	mentor, Jeff Jeffrey Johnson. I had it for a	
8 docume	nt before I implemented the feature.		1	moment and it went away there. Sandra Durham was	
9 Q V	Were there features that you developed at		9	one of my peers.	
0 Cisco re	lating to SNMP that were not defined by an	11:38:56	10	Anke Dosedal was also one of my team	11:42:34
1 IETF do	cument?		11	members. Robert Stewart, who went by the moniker	
2 A I	don't have specifics, but I think that's			Bob, Bob Stewart, was also one of my peers.	
	neralization, that there are parts of		13	Hold on. There's one more. Scott	
4 our the	e Cisco SNMP implementation that were no	t	14	Mordock, M-O-R-D-O-C-K. Now, I can't recall if	
	d in any part of any IETF document because			Scott was on the team when I joined or joined later.	11:43:03
	ternal to how our product worked at the		16	He was I think at Cisco when I joined, but I'm not	
7 time.	·			sure at what point he was part of the SNMP team or	
8 Q S	o okay. When you were developing			not. Long time ago.	
	related to SNMP at Cisco, did you also		19	So those are the names that come to mind.	
0 review w	what other vendors were doing?	11:40:04	20	Q What was John Hopprich's role on the team?	11:43:23
	R. TUNG: Objection. Vague.		21	A He was my manager.	
	HE WITNESS: I do not recall.		22	Q And were the rest of the names, apart from	
	SANTACANA:		23	John Hopprich and Jeff Johnson, were they also	
24 Q Y	ou don't recall either way?			software engineers?	
		11:40:23	25	A Yes. 11:43:36	
		Page 63			Page 65

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	TIT OTHER TO BE THE OTHER
1 Q If you take a look at the last command in 14:41:36	1 at 2:44 p.m. 14:44:02
2 this table, "snmp-server user," do you know whether	2 (Recess, 2:44 p.m 3:05 p.m.)
3 you authored that command?	3 THE VIDEO OPERATOR: We are back on the
4 A Define what you mean by "authored that	4 record at 3:05 p.m.
5 command." 14:41:55	5 BY MR. SANTACANA: 15:05:39
6 Q Do you know whether you are the one who	6 Q Mr. Kavasseri, we left off talking about
7 came up with the sequence of words that resulted in	7 the "sninp-server user" command, and you testified
8 this command, "sninp-server user"?	8 that "snmp-server" came from a prior command in IOS
9 A I cannot be definitive about it.	9 at the time?
10 Q Who else do you recall working with on 14:42:07	10 A No, I said that I don't know how it came 15:05:56
11 this project that resulted in these eight commands?	11 about. It was already there when I joined Cisco.
12 A I would probably have reviewed this with	12 Q And its inclusion in this command for
13 my team members. And so I can't the reason I	13 which you are named the author, it's included there
14 answered the way I did is, I don't know if I came up	14 because it was already part of IOS?
15 with the word "user" or somebody else came up with 14:42:25	
16 the word "user." So I'm not sure in hindsight.	16 I added extensions.
17 Q Did you come up with the term	17 Q And the root was in IOS before you started
18 "sninp-server"?	18 working at Cisco?
19 A Absolutely not.	19 A To the best of my knowledge, it was
20 Q Okay. How do you know that? 14:42:39	20 already there before I started. 15:06:23
21 A It was there before I joined.	21 Q And the term "user" is a term that comes
22 Q It was where?	22 from the SNMP industry standard?
23 A It was in the IOS CLI before I joined	23 A I'm not sure I'd say it exactly that way.
24 Cisco.	24 The term "user" relates to parts of the SNMP V3
Q Okay. And so the addition to that term 14:42:48	25 protocol, yes. 15:06:48
Page 146	Page 148
1 that was new was the word "user"? 14:42:52	1 Q Is that a term that the protocol uses? 15:06:49
2 A Yes	2 A I believe so, but 1 if you have a copy
3 Q Okay And do you know where that word	3 of the reference, I could take a look.
4 came from?	4 Q Sure. Of course.
5 A The SNMP V3 protocol specification has a 14:43:00	5 THE VIDEO OPERATOR: Exhibit 334. 15:07:03
6 definition of roles, if I remember right, and users	6 (Exhibit 334 was marked for identification
7 and groups are in the protocol	7 and is attached hereto.)
8 Q So the term "user" came from the	8 BY MR. SANTACANA:
9 protocol came from the industry standard	9 Q Exhibit 334 is RFC 2274 titled "User-based
10 protocol? 14:43:21	10 Security Model (USM) for version 3 of the Simple 15:07:17
11 A Yes	11 Network Management Protocol (SNMP V3)."
MR TUNG: Objection Mischaracterizes	12 Do you know, sir, if this is an RFC that
THE WITNESS: It referred to what was in	13 you reviewed when you were
14 the protocol, yes	14 A Yes. Let me I'm pretty sure this was
15 BY MR SANTACANA: 14:43:29	15 an RFC I reviewed because I ended up implementing 15:07:3
Q And the protocol uses the word "user"?	16 parts of it.
A I've got to go read the protocol to be	17 Q And just to be clear, it's an RFC that you
8 absolutely sure	18 reviewed when you were implementing the eight
9 Q Okay	19 commands in Exhibit 329?
20 A After this, can we take a break? 14:43:51	20 A Seven. I'm not sure about "snmp host." 15:07:53
21 Q Of course	21 Q Okay. So this is something you would have
22 If you want, we can take a break right	22 reviewed before you proposed those command names?
3 now	23 A Yes, that's correct.
4 A Fantastic	Q And does this document use the term "user"
THE VIDEO OPERATOR: We are off the record 14:44:01	25 in the same way that the "snmp-server user" command 15:08:13
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r	THORE I CONTIDENTIAL		
1	uses it? 15:08:17	1 Q Is this a document you reviewed when you 15:12:26	
2	A I would have to read it. Give me a minute	2 were preparing to implement the commands in	
3	3 to	3 Exhibit 329?	
4	Can you rephrase or repeat the question,	4 A I believe it would have been something I	
5	please? 15:09:11	5 reviewed before I implemented the commands 15:12:35	
6	Q This RFC 2274, does this document use the	6 Q And if you flip to page 3 of the document,	
7	term "user" the same way that you used the term	7 under Section 2 1 titled "Groups," the first	
8	"user" in "snmp-server user"?	8 paragraph defines the term "group" as follows: "A	
9	A The document does not define a CLI command	9 group is a set of zero or more securityModel,	
10	or so 1 will the term "user" seems to refer to 15:09:	210 securityName tuples on whose behalf SNMP management 15:	:12:55
11	the same entity in both cases. But the document	11 objects can be accessed A group defines the access	
12	does not tell me there needs to be a command called	12 rights afforded to all securityNames which belong to	
13	"snmp-server user."	13 that group "	
14	Q I understand.	Does this RFC use the term "group" the	
15	A Okay. 15:10:09	15 same way that you were using it in your "snmp-server 15:13:0	В
16	Q So you did not come up with the term	16 group" command?	
17	"user"?	17 A I believe so	
18	A In which context?	18 Q What does the "snmp-server group" command	
19	Q In the context of this "snmp-server user"	19 do?	
20	command. 15:10:32	20 A Actually, even reading this document 15:13:26	
21	A As I responded earlier, I'm not sure how	21 probably won't tell me because I need to see all the	
22	the term "user" came about, whether it was due to a	22 help extensions to see what it does	
23	group interaction or something I did or something	23 Q Okay	
24	somebody else did.	24 A So it's been a while	
25	Q Okay. I'd like to direct your attention 15:10:50 Page 150	25 Q You don't recall what it does? 15:13:34	Page 152
1	now to "snmp-server group," which is the next row 15:10:53	1 A No. 15:13:35	
	up.	2 Q Okay. Do you recall what "snmp-server	
3	A Yealt.	3 user" does?	
4	Q As you've testified, "snmp-server" was a	4 A I would rather not guess at this point.	
5	term that was a root already present in IOS at this 15:11:03	5 It's been years since I used these commands. 15:1	3:45
	time; is that correct?	6 I probably would be able to figure it out	
7	A Yes.	7 within about 25 minutes of touching the CLI, but	
8	Q The term "group," did that come from IOS	8 it's really old, old stuff.	
9	as well or did it come from somewhere else?	9 Q I understand.	
10	A I believe there was a concept of "group" 15:11:20	10 I'd like to turn your attention now to the 15:14:14	4
11	in this document. Let me look through it one more	1 two commands right above that, "snmp-server engineID	
12	time.	2 local" and "sninp-server engineID remote."	
13	Q I think you'll have more luck with this	Did you author those commands?	
14	one.	A I think I have a strong recollection that	
15	A Yeah, there may be a separate document for 15:11:48	5 I had more to do with these commands; in part, the 15	:14:32
16	that.	6 fact that there was the ID which is upper case,	
17	(Exhibit 335 was marked for identification	7 which is usually not what we do in these IOS CLI	
18	and is attached hereto.)	8 commands. It stands out.	
19	BY MR. SANTACANA:	9 Q Typically in IOS CLI you weren't	
20	Q Exhibit 335 is RFC 2275 entitled 15:12:02	20 accustomed to seeing letters capitalized like they 15:1	4:52
21	"View-based Access Control Models (VACM) for the	1 are in the term "engineID"?	
22	Simple Network Management Protocol (SNMP)." It's	2 A Yes.	
	dated January 1998.	Q Why were they capitalized here?	
24	Do you recognize this document, sir?	4 A I have no idea why I capitalized them.	
25	A Yes, I do. 15:12:25	5 Q Okay. 15:15:07	
	Page 151	F	Page 153

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(Exhibit 336 was marked for identification 09:11:58 and is attached hereto.) BY MR. SANTACANA: Q I'm handing you what's been marked as Exhibit 336, which is RFC 2271, dated January 1998. 15:15:10 It's titled "An architecture for Describing SNMP Management Frameworks."	3 4 5	Q And that's because the E is capitalized? A Yes.
BY MR. SANTACANA: Q I'm handing you what's been marked as Exhibit 336, which is RFC 2271, dated January 1998. 15:15:10 It's titled "An architecture for Describing SNMP	3 4 5	Q And that's because the E is capitalized? A Yes.
Q I'm handing you what's been marked as Exhibit 336, which is RFC 2271, dated January 1998. 15:15:10 It's titled "An architecture for Describing SNMP	4 5	A Yes.
Exhibit 336, which is RFC 2271, dated January 1998. 15:15:10 It's titled "An architecture for Describing SNMP	5	
It's titled "An architecture for Describing SNMP	1	Q Okay. The capital ID that you find 15:18:38
	1 6	
Management Frameworks."	1	memorable in the commands in Exhibit 329 is the same
	7	capital ID as on this page 36 of
Do you recognize this document?	8	A Correct.
A It's been a long time. And while the view	9	Q this RFC?
and the user bring immediate memories, this is 15:15:42	10	A Correct. 15:18:51
probably this doesn't bring back immediate	11	Q Does that refresh your recollection as to
memories, but I'm sure I read it at some point.	12	why "enginelD" is the way it is in Exhibit 329?
Q Are you sure you read it	13	A No.
A I soaked in this.	14	Q Okay.
Q I'm sorry to interrupt you. 15:15:54	15	A Because if ID capitalized is from here, 15:19:03
A Let me I assume I read it. I'm not	16	which is I think where you're leading me to, I'm
sure. It's been a long time ago.		questioning why E is also not capitalized, or S is
Q Is this a document you would have reviewed	l	not capitalized.
prior to implementing the commands in Exhibit 329?	19	
A I would say yes, though there might be 15:16:21	20	right? 15:19:20
other commands that match more to the proxy that's	21	A "SnmpEngineID," no, it has no spaces in
described in the document.	22	it.
Yeah, some of this, yes, I probably would	23	Q And as a software engineer, would it be
· · · · · ·		fair to say that the reason the E is capitalized
· ·		here is because there is no space but it's the 15:19:32
Page 154		Page 156
page 36. About a fifth of the way down the page. 15:16:38	1	beginning of a new term? In other words, it's 15:19:36
		CamelCase?
·		A It is CamelCase.
_		Q But in the Exhibit 329, there's a space,
		so it's not in CamelCase; is that right? 15:19:45
		A Yeah. But if it was not if we were
		using CamelCase, why isn't E capitalized is the
		other question, right?
		O Why isn't the E capitalized?
		A So in Exhibit 329, it's not pure CamelCase 15:19:56
		because "engineID," the first E is not capitalized.
		Q That's exactly my point. You didn't use
		CamelCase in Exhibit 329, in the commands in
		Exhibit 329.
		A In Exhibit 329, I'm not sure how 15:20:15
		*
·		"engineID" came out with a capital ID. It could
·		be yeah. At this point I'm not sure what the
-		exact origin is.
		Q Okay. In any case, regardless of
		capitalization, the term "engineID" is not a term 15:20:37
tled, without spaces, "SnmpEngineID."		that you came up with, right?
T- 1 2		A No, it's not a term that I came up with.
Do you see that?	22	•
A S capital, E capital, ID capital. Yes, 1	23	Q That's a term
A S capital, E capital, ID capital. Yes, 1 o see it.	23 24	•
or or he had a set of the set of	Q Are you sure you read it A I soaked in this. Q I'm sorry to interrupt you. 15:15:54 A Let me I assume I read it. I'm not ure. It's been a long time ago. Q Is this a document you would have reviewed rior to implementing the commands in Exhibit 329? A I would say yes, though there might be 15:16:21 ther commands that match more to the proxy that's escribed in the document. Yeah, some of this, yes, I probably would ave read to implement it. Q If you could flip to page sorry 15:16:35	A I soaked in this. Q I'm sorry to interrupt you. A Let me I assume I read it. I'm not ure. It's been a long time ago. Q Is this a document you would have reviewed rior to implementing the commands in Exhibit 329? A I would say yes, though there might be 15:16:21 ther commands that match more to the proxy that's escribed in the document. Yeah, some of this, yes, I probably would ave read to implement it. Q If you could flip to page sorry 15:16:35 Page 154 Page 154 Page 154 Page 154 Page 154 Page 154 I boyou see that? 15:16:55 A Yeah. Q What is your understanding as someone who as participated in the IETF process of the phrase extual conventions used in the SNMP management rehitecture"? 15:17:12 A It in this case to me would refer to a uman-readable string representing a particular data repe, and semantics around the use of that articular data type. Q So this RFC defines semantically what 15:17:55 A It defines textual conventions as they ould be used in other MIBs that import from this FC. 19

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1 came up with for the CLI command or somebody else on 15:20:55	I A Not at all. I just don't recognize it 15:28:37
2 my team came up with for the CLI command	2 looking at it right now because it's been so long
3 Q The I'm sorry 1 just didn't	3 ago.
4 understand your last answer	4 Q What is this document?
5 Did you coin the term "engineID"? 15:21:46	5 A It's a detailed design document for the 15:29:04
6 A I am not certain that I coined the term	6 SNMP V3 implementation that went into IOS.
7 "engineID"	7 Q And the design document includes strike
	8 that,
` '	9 Do you know who the author of this
9 right? 10 A "SnmpEngineID" appears in this document, 15:22:03	10 sorry. Strike that. 15:29:22
1 6 11	11 Do you know who the audience of this
11 yes	12 document is?
12 Q Okay And you reviewed this document	13 A Other engineers within the team or related
13 before writing these command names, right?	14 teams who have a need to know about how SNMP was
14 A Correct	
15 Q The last word in those two commands, the 15:22:19	15 designed so they can maintain it. 15:29:37
16 first one, the last word is "local," and the second	16 Q And so is it fair to say the document
17 one, the last word is "remote"	17 includes information about how you intended to
Do you know where those terms come from?	18 implement SNMP V3 including some of the commands
19 A It's been a long time Am I allowed to	19 that you were proposing?
20 look through the document to see if there's anything 15:22:35	20 A Yeah. 15:29:55
21 with "local" and "remote" here?	21 Q Take a look at Section 1.4 on the first
22 Q Sure	22 page. It begins, "Must allow creation and deletion
23 A So the remote engineID, I'm trying to look	23 of SNMP communities, users and groups via both the
24 where in the protocol we talk about SNMP in PROMs	24 CLI and SNMP sets."
25 because I suspect it has to do with message exchange 15:25:39 Page 158	When you wrote "Must allow creation and 15:30:11 Page 16
1 between two configured SNMP devices where one is 15:25:42	,
2 notifying the other of activity.	2 what is it that has that requirement?
3 Q That would be remote?	3 A Can you repeat the question, please?
4 A One would be local, one would be remote.	4 Q What is it that you were referring to that
5 Q And is that a feature that's provided for 15:26:04	5 requires the strike that. 15:30:30
6 in the industry standards?	6 You wrote that something must allow the
7 A I believe so. I'm not sure they use	7 creation and deletion of SNMP communities, users and
8 remote or message authoritative. Without being able	8 groups.
9 to grab through to search through the document,	9 What is the "something"?
0 it's hard for me to tell you exactly where or 15:26:18	10 A We were striving for feature parity in 15:30:43
1 what could have triggered the use of the term	11 configuring SNMP through both the CLI and through
2 "remote."	12 SNMP.
3 (Exhibit 337 was marked for identification	13 With SNMP V3, if I recall right, if I
4 and is attached hereto.)	14 recall correctly, one of the nice features was that
5 MR. SANTACANA: Exhibit 337 bears the 15:27:40	15 it allowed for SNMP MIBs that could be used to 15:31:04
6 control numbers CSI-CLI-00609071. It's titled	16 configure SNMP.
7 "Document Number ENG-28473, Revision B." It lists	17 So if you did a basic amount of
8 the witness as the author; project manager, Dale	18 configuration of the CLI, the rest of the
9 Francisco; project headline, SNMP V3 Design	19 configuration you could take care of
10 Document. 15:28:05	20 MR. THOMPSON: Mr. Kavasseri, slow 15:31:18
Q Mr. Kavasseri, do you recognize this	21 THE WITNESS: Slow it down? Yeah.
	22 MR. THOMPSON: Thank you.
3 A No, it's been so long ago.	23 THE WITNESS: If you what SNMP V3 gave
	24 us was the ability to do a seed simple configuration
	25 through the command line interface, and then do the 15:31:29
23 that you're the author of this document? 13.28.33 Page 159	Page 16

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1 rest of the configuration through SNMP directly 2 This was not possible before 3 Because it was not possible before, we had 15:31:32 1 team suggested, "Hey, go with the shortest 2 Because when you're talking about to 3 command line, it's all about how many characteristics."	_
3 Because it was not possible before, we had 3 command line, it's all about how many cha	
	he
	racters you
4 never bothered with creating communities which 4 type, or it's a lot to do with how many char	acters
	5:34:51
6 needed to add that as a support feature as well 6 Q Why is that?	
7 BY MR SANTACANA: 7 A Well, you could type U and hit "tab	" and
8 Q And the reason you needed to add the 8 if there was no other word that started with	•
9 ability to create and delete communities, users and 9 would auto-complete to "user." So you did	•
10 groups was because of the features of the industry 15:31:59 10 to type the whole thing.	15:35:03
11 standard SNMP V3? 11 Q Okay. If you turn to the page that e	
12 A I don't know whether SNMP V3 the 12 in 82, this is the end of a list of CLI comma	
13 SNMP V3 talked about users, not communities, if I I3 that you're proposing, and this one in partic	cular is
14 remember right 1 think that's what we referred to 14 the "sninp-server engineID" command.	
15 in the in getting things getting tricky 15:32:24 15 Do you see that?	15:35:28
Even now we just had it through SNMP, so 16 A Can you repeat that again, please?	
17 only the IOS CLI was the point of record 1'm not 17 Just I'm slowing down reading stuff alrea	•
18 sure whether I meant here that you could delete 18 Q Of course. After the first paragraph	l
19 stuff through SNMP that was created through the CLI 19 here, which carries over from the previous	page,
20 and now the CLI needs to be regenerated or resaved 15:32:38 20 there's an asterisk, and then there's the	15:35:40
21 to NV RAM 21 "snmp-server engineID" command.	
22 Q Okay I think I understand And it might 22 A Yeah.	
23 be clear if you flip to the page that ends in 75, 23 Q And then below that you describe w	hat the
24 Section 2 7 24 command is and what it's going to do.	
25 Section 2.7 says, "SNMP V1/V2 versus SNMP 15:33:02 25 Do you see that?	15:35:49
Page 162	Page 164
1 V3 differences, and how things work." 15:33:07 1 A Yeah. 15	:35:51
2 And then you have a list of differences 2 Q And then also it shows that local and	h
3 and how things work between the old and the new 3 remote are optional arguments.	
4 versions of SNMP. 4 Do you see that?	
5 The first thing that you wrote was, "In 15:33:18 5 A Where does it say local and remote a	are 15:36:03
6 SNMP V3, 'community strings' are called 'users,'" 6 optional arguments?	
7 and "users" is in quotation marks. "Each 'user," 7 Q Directly under "snmp-server enginel	ID." do
8 in quotation marks again, "has an access-policy, 8 you see the open bracket, and then it says, "	•
9 which is termed a 'group,'" and the word "group" is 9 and then there's a vertical line, and then it sa	
	:36:13
11 group." 11 A So	.55,15
· ·	no Ioggi
13 Q Does this strike that. 13 "snmp-server engineID" could either take the	
Does this refresh your recollection as to 14 argument or the parameter, if you will, or	
3 1	36:27
16 SNMP standard? 16 A No, I don't think that this is an option	ĺ
17 A The term "user" and "group" referred to 17 argument. I think there's a typo in this text I	here.
18 concepts in the SNMP standard. Of that, I have no 18 Q Okay.	
19 issue with saying that. 19 A Because if you look at it, the first	
The reason I hesitate is, we use the term 15:34:19 20 bracket is an open curly brace. There is no	close 15:36:34
21 "user," and we could have used VACM user or any 21 curly brace.	
22 other combination of "user." 22 I assume that and again, I could be	
23 We settled on "user." I'm not sure that 23 completely wrong on this. I assume that the	if
24 that was because it was directly due to looking at 24 you look at "remote ipaddress udp-port," and	d then
25 the RFC, or somebody in parser police or within my 15:34:35 Page 163 25 within angle brackets, "port," following that	are 15:36:52 Page 165

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1	two square brackets. I think the second of those is 15:36:55	1	
1	supposed to be a curly bracket.	2	,
3	•	3	authored the engineID command.
4	theory, if you have both optional, I'm not sure how	4	Again, I'm going by the fact that it's
5	a programmatic parser would know what you meant. 15:37:	08 5	s semi CamelCase and it looks odd, and I'm not sure 15:39:43
6	Q I see.	6	anybody else in my team would have come up with
7	A There are two optional paths to go by and	7	that.
8	a required path at the end.	8	The rest of the commands they may all
9	Q I see. And I think I I didn't mean to	9	have been group efforts, team efforts. But I I'm
10	say "optional." What I meant was that the user has 15:37:23	10	pretty sure I checked in the files of these 15:39:58
11	an option between using local and using remote.	11	commands.
12	A Yeah, that is correct. That seems about	12	Q Okay. Mr. Kavasseri, you've said a couple
13	right.	13	times that it may be that you were listed here as
14	Q Okay. But the command itself is		the author of the command because you were the
	"snmp-server engineID"; is that fair to say? 15:37:33	í.	person who checked in the files. 15:40:35
16	A The root of the command is "snmp-server	16	•
	engineID." I agree.	17	A Every Cisco command every IOS CLI
18	Q The first thing that you write here under		
	that command is, "For SNMP V3 authentication and		command is implemented in a source code file. When somebody finished developing that, they checked the
		-	
	privacy to work, each SNMP agent needs to have its 15:37:46	1	command in. 15:41:02
	own SNMP engine ID."	21	So in this case, if you're referring to
22	A Yes.	1	by "author," if you mean the person who checked in
23	Q Do you see that?		the files, then yes, these files were all checked in
24	What did you mean by that?	1	by me originally. But that does not mean that I was
25	A My recollection is hazy, but my hazy 15:38:03		the sole creator of these keywords. 15:41:15
	Page 166	-	Page 168
1	recollection tells me that this is the key that is 15:38:05	1	We have a very collaborative work 15:41:20
2	used to encrypt packets going back and forth; i.e.,	2	environment when I was there, and I especially
3	if you change this key, you may not yeah. I	3	with an important feature like SNMP V3, I would
4	don't change the key. I have no idea what happens	4	think that this was a team effort
	when you change the key anymore. 15:38:21	5	Q I just need to go back a second Could 15:41:36
6	Q Okay. You can set that aside.	6	you grab Exhibit 336, which is RFC 2271?
7	You've mentioned a couple of times that	7	A Yeah
	some commands can take the word "no" in front of	8	Q Could you turn to page 45 of that exhibit?
	them.	9	A Yep
10	A Yes. 15:38:41	10	
11	Q Is that you'll see that's not listed in		Q This is an acknowledgment section which 15:41:52
	•		acknowledges the efforts of the SNMP V3 working
	Exhibit 329. Cisco doesn't list it that way. "No"		group at IETF, and it lists as working group members
	is an optional thing that you can write in front of		a number of people who work at a variety of
	the command, right?	1	different companies
15	A "No" is an optional extension to add in 15:38:51	15	A Yes 15:42:04
	front of the command.	16	Q Some of those people are Keith McCloghrie,
17	Q And was that already the way the IOS CLI	1	and in parentheses it says, "Cisco Systems"; Bob
	worked before you started working at Cisco?	18	Stewart, and in parentheses, "Cisco Systems"; and
19	A By my recollection, yes.	19 .	Jeff Johnson in the next section, which is a list of
20	Q I'd like to turn your attention now to the 15:39:12	20 1	members of an advisory team at the IETF, also at 15:42:19
21	top four commands in this list, which all begin with	21	Cisco Systems
22	the word "show."	22	Did you know all of these people?
23	A Yes.	23	A Yes, I did
	Q The words "show snmp," and then there's	24	Q Do you recall Mr McCloghrie, Mr Stewart
24	17		` '
	another word. 15:39:22	25 8	and Mr Johnson contributing to the SNMP V3 industry 15:42:35

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I standard protocol while you were working and Cisco? 15:42:40 2		
3 to—let me rephrase by saying I had very limited 4 interactions at the fine this document was written. 5 I know that Jeffey obhors was very 15:43:08 6 involved because he was my mentor, and he would tell 7 me that he was working on the RFC draft. I have no 8 direct evidence of the other two that I can result. 9 I will add an addendum that they both were 10 cery respected people, and I'm very sure they did a 15:43:22 11 lot for these documents. I just don't have any 12 direct evidence that I was privy be from a working 13 meeting or anything else. 14 Q Cleay. So you can set that aside now. 15 Looking back at Edithisi 329, we'd started 15 "Stoo" was a term that was already in 17 commands. 18 "Show" was a term that was already in 19 lOS CLi; is that fair to say? 20 A When I joined Cisco — I've actually never 21 asked the question when "show" was in the command. 22 As far as I can tell, it was there when I joined. 23 Q And the reason that you used it there was 24 because it was already used in other IOS CLI 25 commands? 15:44:37 Page 170 1 A By the time I implemented these commands, 26 discussed, is an industry standard protocol, is that for these commands is "show samp." And then we have 29 "show" was the standard way to display information 3 from the CLI. 4 Q And the reason that you used it there was 24 because it was already used in other IOS CLI 25 commands? 15:44:38 16 interestination and it is the protocol, so we've 26 discussed, is an industry standard protocol, is that the standard way to display information 3 incertification and it is shown samp." And then we have 12 "show samp user" and "group" appear in the ETF documents; is 15:45:27 16 fair to say? 17 A T instead of the thirth of the protocol, so we've 18 these commands is "show samp." And then we have 19 inform. 19 inform. 10 Q And the terms "nert" and "group" appear in the ETF documents; is 15:45:27 10 Q And the twent "nert" and "group" appear in the ETF documents; is 15:45:29 11 A To the best of my strowdedge, they refer to a command. In here they'		_
4 Interactions at the time this document was very		-
S I know that Jeffrey Johnson was very 15-43-08 6 involved because he was my mentor, and he would tell 7 met that he was working on the RFC draft. I have no 8 direct evidence of the other two that I can recall. 9 1 will add an addendum that they both were 10 very respected people, and I'm very sure they did a 15-43-32 11 lot for these documents. I just dorft have any 12 direct evidence that I was privy to flom a working 13 meeting or anything else. 12 Min and a meeting or anything else. 13 meeting or anything else. 14 Q Clay. So you can are that aside now. 15 Looking back at Establish 329, weld starred 15-43-37 16 discussing the four "show" commands, "show sump" 17 commands. 18 "Show" was a term that was already in 17 commands. 18 "Show" was a term that was already in 18 18 "Show" was a term that was already in 19 IoS CLL is that fair to say? 19 LOS CLL is that fair to say? 19 A Yes. 20 Q Do you recognize that command? 15-44-31 21 asked the question when "show" was in the command 22 As far as I can tell, it was three when I joined. 23 Q And the same was already used in other IOS CLL 25 commands? 15-44-37 Page 170 21 A By the time I implemented these commands, 15-44-37 Page 170 21 A By the time I implemented these commands, 15-44-37 Page 170 21 A By the time I implemented these commands, 15-44-37 Page 170 21 A By the time I implemented these commands, 15-44-37 Page 170 21 A By the time I implemented these commands, 15-44-37 Page 170 21 A By the time I implemented these commands, 15-44-37 Page 170 21 A By the time I implemented these commands, 15-44-37 Page 170 21 A By the time I implemented these commands, 15-44-37 Page 170 21 A By the time I implemented these commands, 15-44-37 Page 170 21 A By the time I implemented these commands, 15-44-37 Page 170 21 A By the time I implemented these commands, 15-44-37 Page 170 21 A By the time I implemented these commands, 15-44-37 Page		
6 involved because he was my mentor, and he would tell 7 me that he was working on the RFC draft. I have no 8 (firect evidence of the other two that I can recall. 9 I will add an addendum that they both were 10 very respected people, and I'm very sure they did a 10 to for these documents. I just doth thave any 12 direct evidence that I was privy to from a working 13 meeting or anything else. 14 Q Okay. So you can set that aside now. 15 Looking back at Eskibit 329, weld started 15 43-37 16 discussing the four 'show' commands, 'show sump' 17 commands. 18 "Show' was a term that was already in 19 IOS CLE, it but fair to say? 20 A When I joined Cisco — I've actually never 15:44:11 21 asked the question when 'show' was in the command. 22 As far as I can tell, it was there when I joined. 23 Q And the reason that you used it there was 24 because it was already used in other IOS CLI. 25 commands? 15 As 37 27 A By the time I implemented these commands, 15:44:37 28 cilicassed, is an industry standard protocol, je shat 15:44:49 6 fair to say? 7 A In which context? The term 'SNMP' by 8 titself can an industry standard protocol, yeys. 10 Q And the term 'snamp," And then we have 12 "show's was pure," and "group" appear in the —"smap 18 user' and "group" appear in the ETF documents; so the turn fair to say? 17 A New the way that they'te used in those IETF documents; so the turn fair to say? 18 A Yesh. 19 Q And the terms "taer" and "group" appear in the —"smap 18 user and "group" appear in the ETF bocuments; so the turn fair that command is show samp." And then we have 12 "show's samp user" and "group" appear in the ETF documents; so the turn fair say? 19 A Yesh. 20 Q And the terms "taer" and "group" appear in the ETF documents; so the turn fair say. 21 A To the best of my knowledge, they refer to 22 the same things. But they're not used in the same 23 way in that the IETF document does not refer to a 24 child command. In here they're used is missed as an expension of the top're used specifically for 24 CLI command. In here the		
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1 dictate whether the SNMP is an industry standard or 16:21:36 2 not?	Cisco's CLI command expressions appear in any of Cisco's competitors' CLI?
3 MR. SANTACANA: Same objections.	3 A Setting aside work product done for other
4 THE WITNESS: I could only offer an	4 attorneys, I am I cannot recall if I ever
5 opinion on this. And if you would like my opinion, 16:21:45	5 investigated whether Cisco's CLI expressions 16:25:20
6 if enough vendors do not implement a particular	6 appeared in any other competitor's product.
7 proposal, I do not believe that proposal should be	7 Q Okay.
8 called a standard.	8 A I would also like to make sure I protect
	9 myself I want to protect myself from perjuring
	10 myself here. By saying I caunot recall that does 16:25:41
11 checking. Sorry. Thank you.	11 not mean that it did not happen. My memory doesn't
12 BY MR. TUNG:	12 bring it up right now.
13 Q Okay. Can we turn to Exhibit 329?	MR. THOMPSON: Don't be concerned. If you
14 A I'm going to have nightmares about this.	14 don't recall something, that's perfectly fine to say
15 Q Have you ever done an investigation 16:22:44	15 that. 16:25:51
16 whether the specific command expressions that appear	16 THE WITNESS: Okay. All right.
17 in Exhibit 329 are used in this exact form in other	17 BY MR. TUNG:
18 competitors' CLI?	18 Q And I think that's really the intent of my
19 A Can you repeat that question?	19 question, if you recall any instance in which you
20 Q Yeah. 16:23:04	20 have investigated whether a Cisco's competitor's CLI 16:25:57
Have you ever done an investigation	21 was identical to Cisco's CLI.
22 whether these specific command expressions that	22 A I have not to the best of my recollection
23 appear in Exhibit 329 appear in Cisco's competitors' 24 CLI?	23 at the moment. Nothing comes to mind.
	24 MR. TUNG: I have no further questions. 25 MR. SANTACANA: I don't have any. 16:26:16
25 A I believe I may have gone looking for 16:23:20 Page 190	25 MR. SANTACANA: I don't have any. 16:26:16 Page 192
1 these in at least one competitor's CLI. 16:23:21	1 THE VIDEO OPERATOR: This is the end of 16:26:19
2 Q And did you determine whether any of these	2 today's deposition of Mr. Ramanathan Kavasseri. We
3 command expressions appeared exactly the same way in	3 are off the record at 4:26 p.m. The total number of
4 the competitor's CLI?	4 media used was two and it will be retained by
5 A I would prefer to not answer that question 16:23:52	5 Veritext. Thank you. 16:26:28
6 because it might impact work product.	6 (TIME NOTED: 4:26 p.m.)
7 Q Okay. So let me rephrase the question.	7000
8 So setting aside any work done at the	8
9 direction of attorneys, have you investigated	9
10 whether any command expressions that appear in 16:24:10	10
11 Exhibit 329 appear identically in a Cisco	11
12 competitor's CLI?	12
13 A To the best of my recollection, I have not	13
14 investigated this in any other vendors' products.	14
15 Q Now expanding the question a little 16:24:31	15
16 broader, have you investigated whether any of	16
17 Cisco's CLI command expressions appear in any Cisco	17
18 competitors' CLI, again, setting aside any work done	18
19 at the direction of attorneys?	19
20 A I want to clarify with my previous answer 16:24:49	20
21 that's setting aside any work product.	21
22 Can you repeat the second question again?	22
23 Q The second question, I'm going to say,	23
24 setting aside any work product, any work done for	24
25 attorneys, have you investigated whether any of 16:24:59	25
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9 machine shorthand which was thereafter transcribed 10 under my direction; that the foregoing transcript is
10 under my direction; that the foregoing transcript is
11 a true record of the testimony given. 12 Further, that if the foregoing pertains to
13 the original transcript of a deposition in a Federal
14 Case, before completion of the proceedings, review
15 of the transcript [X] was [] was not requested.
16 I further certify I am neither financially
17 interested in the action nor a relative or employee
18 of any attorney or any party to this action.
19 IN WITNESS WHEREOF, I have this date
20 subscribed my name.
21 22 Dated: 3/7/16
22 Dated: 3/7/16 23
22 Dated: 3/7/16 23 24
22 Dated: 3/7/16 23 24

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Case 5:14-cv-05344-BLF Document 512-8 Filed 09/06/16 Page 16 of 122 CONFIDENTIAL INFORMATION UNDER THE PROTECTIVE ORDER

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UNITED STATES DISTRICT COURT
 1
                  NORTHERN DISTRICT OF CALIFORNIA
 2
 3
                         SAN JOSE DIVISION
 4
 5
      CISCO SYSTEMS,
                          )
 6
      INC.,
                          )
 7
           Plaintiff,
                         ) No. 5:14-cv-05344-BlF (PSG)
 8
               vs.
 9
      ARISTA NETWORKS,
      INC.,
10
           Defendant.
11
12
13
       CONFIDENTIAL INFORMATION UNDER THE PROTECTIVE ORDER
14
             VIDEOTAPED DEPOSITION OF ANTHONY J. LI
15
16
                          Palo Alto, CA
17
                    Monday, February 1, 2016
                             Volume I
18
19
20
     Reported by: SUSAN F. MAGEE, RPR, CCRR, CLR
21
22
     CSR No. 11661
23
     JOB No. 2224600
24
25
     PAGES 1-258
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Case 5:14-cv-05344-BLF Document 512-8 Filed 09/06/16 Page 17 of 122 CONFIDENTIAL INFORMATION UNDER THE PROTECTIVE ORDER

1 LINETED OTATES DISTRICT COLID	LUDEY
1 UNITED STATES DISTRICT COURT 2 NORTHERN DISTRICT OF CALIFORNIA	1 INDEX
	2
3 SAN JOSE DIVISION 4	3 CONFIDENTIAL INFORMATION UNDER THE PROTECTIVE ORDER 4 VIDEO DEPOSITION OF ANTHONY J LI
5 CISCO SYSTEMS,)	5 Volume I
6 INC,)	6 EXAMINATION BY PAGE
7 Plaintiff,)	7 BY MR WONG 9
8 vs) No 5:14-cy-05344-BIF (PSG)	8 BY MR PAK 191
9 ARISTA NETWORKS,)	9
10 INC.)	10
11 Defendant)	11
12	12
13	13
14	14
15 CONFIDENTIAL INFORMATION UNDER THE	15
16 PROTECTIVE ORDER VIDEO DEPOSITION OF ANTHONY J LI	16
17 taken on behalf of Defendant at WILSON, SONSINI,	17
18 GOODRICH & ROSATI, 601 South California Avenue,	17
19 Palo Alto, CA 94304, beginning at 9:13 a m and	19
20 ending at 4:17 p m on Monday, February 1, 2016,	20
21 before Susan F Magee, RPR, CCRR, CLR, Certified	21
22 Shorthand Reporter No 11661	22
23	23
24	24
25	25
Page	Page 4
1 APPEARANCES:	1 EXHIBITS
2	2 NUMBER DESCRIPTION PAGE
3 For the Plaintiff:	3
4 QUINN, EMANUEL, URQUHART & SULLIVAN	4 Exhibit 136 LinkedIn Profile (8 pages) 12
5 BY: SEAN PAK, ESQ.	5 Exhibit 137 RFC Table (3 pages) 90
6 50 California Street	6 Exhibit 138 March 1995 RFC 1771, A Border 100
7 22nd Floor	7 Gateway Protocol 4 (BGP-4) (57
8 San Francisco, CA 94111	8 pages)
9 (415) 875-6600	9 Exhibit 139 December 1995 RFC 1887, An 105
10 seanpak@quinnemanuel.com	10 Architecture for IPv6 Unicast
11	11 Address Allocation,
12 For the Defendant:	12 ARISTANDCA00025747-ARISTANDCA
13 KEKER & VAN NEST LLP	13 00025772
14 BY: RYAN WONG, ESQ.	14 Exhibit 140 June 1996 RFC 1966, BGP Route 111
15 BRIAN L. FERRALL, ESQ.	15 Reflection, An Alternative to
16 633 Battery Street	16 Full Mesh IBGP,
17 San Francisco, CA 94111-1809	17 ARISTANDCA00025927-ARISTANDCA
18 (415) 773-6682	18 00025933
19 rwong@kvn.com	19 Exhibit 141 October 2008 RFC 2966, 116
20 bferrall@kvn.com	20 Domain-Wide Prefix Distribution
21	21 with Two-Level IS-IS (16 pages)
22 The Videographer:	22 Exhibit 142 August 1996 RFC 1997, BGP 119
23 JEFREE ANDERSON	23 Communities Attribute,
24	24 ARISTANDCA00026094-ARISTANDCA
25 Page 3	25 00026098
Dogo :	Page 5

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CONTIDENTIAL INFORMATION	TO THE TROTTE TITLE OF THE STATE OF THE STAT
1 EXHIBITS (continued)	l Palo Alto, CA, Monday February 1, 2016
2 NUMBER DESCRIPTION PAGE	2 9:13 a.m.
3	3
4 Exhibit 143 March 1998 RFC 2281, Cisco Hot 124	4 THE VIDEOGRAPHER: Good morning. We're on
5 Standby Router Protocol (HSRP),	5 the record at 9:13 a.m. on February 1st, 2016. This 09:13:47
6 ARISTANDCA00026832-ARISTANDCA	6 is the video recorded deposition of so sorry. Of
7 00026848	7 Anthony Li here with our court reporter Susan Magee.
8 Exhibit 144 E-mail String Containing 143	8 My name is Jefree Anderson. We are here
9 9/22/92 E-mail from/to Toni Li,	9 from Veritext Legal Solutions at the request of
10 TS-0000066	10 counsel for the defendant or the plaintiff? 09:14:16
11 Exhibit 145 Procket Networks PRO/8000 163	•
	11 MR. WONG: Defendants.
F	12 THE VIDEOGRAPHER: For the defendant. This
13 (144 pages)	13 deposition is being held at Wilson Sonsini at
14 Exhibit 146 Procket Networks PRO/8000 164	14 601 California Avenue, Palo Alto, California. The
Series IPv6 Routing Protocols	15 caption of this case is Cisco Systems, Incorporated 09:14:31
16 (180 pages)	16 vs. Arista Networks, Incorporated. The case number
17 Exhibit 147 Procket Networks PRO/8000 164	17 is 5:14-cv-05344.
18 Series System Management and	18 Please note that audio and video recording
19 Operations (604 pages)	19 will take place unless all parties agree to go off
20 Exhibit 148 Cisco's 6th Supplemental 167	20 the record, and microphones are sensitive and may 09:14:53
21 Response to Interrogatory NO.	21 pick up whispers, private conversations and cellular
22 16 and Response to	22 interference; so please be aware of that.
23 Interrogatory No. 19 Amended	23 Beginning with our noticing attorney,
24 Exhibit F (45 pages)	24 please state your name and the firm you represent.
25 Exhibit 149 List of Commands (1 page) 169	25 MR. WONG: Ryan Wong from Keker & Van Nest 09:15:05
Page 6	Page 8
1 EXHIBITS (continued)	1 for defendant Arista Networks.
2 NUMBER DESCRIPTION PAGE	2 MR. FERRALL: Brian Ferrall, Keker & Van
3	3 Nest, also for Arista.
4 Exhibit 150 1/20/96 E-mail from Toni Li to 183	4 MR. PAK: Sean Pak of Quinn for Cisco.
5 Bill W., CSI-CLI-00746246	5 THE VIDEOGRAPHER: Thank you. 09:15:16
6 Exhibit 151 CSCdi14533, CSI-CLI-01339850 185	6 Will the court reporter please swear in the
7 Exhibit 152 Group of E-mails Containing 239	7 witness.
-	i
-	8
9 to widmer@cisco.com,	9 ANTHONY J. LI,
10 CSI-CLI-00746331 -	10 having been administered an oath, was examined and 09:15:19
11 CSI-CLI-00746347	11 testified as follows:
12	12
13	13 EXAMINATION BY MR. WONG
14	14
15	15 Q. Good morning, Mr. Li. 09:15:29
16	16 A. Good morning.
17	17 Q. Please state your full name.
18	18 A. Anthony Joseph Li.
19	19 Q. Do you live in the Bay Area, Mr. Li?
20	20 A. I do. 09:15:36
21	
22	
<u> </u>	
23	
23 24	24 O. Mr. Li, do you understand that are you
24	24 Q. Mr. Li, do you understand that are you 25 festifying here in response to a subpoena in this 09:15:46
24	24 Q. Mr. Li, do you understand that are you 25 testifying here in response to a subpoena in this 09:15:46 Page 9

Case 5:14-cv-05344-BLF Document 512-8 Filed 09/06/16 Page 19 of 122 CONFIDENTIAL INFORMATION UNDER THE PROTECTIVE ORDER

	THE TROTEOTIVE ORDER
1 lawsuit?	1 obviously if anything that's confidential to Cisco,
2 A. I do.	2 1 will be designating that as confidential under the
3 Q. Have you seen the subpoena in the lawsuit?	3 protective order.
4 A. Yes, I have.	4 THE WITNESS: Okay.
5 Q. Mr. Li, are you represented by an attorney 09:15:5	5 5 BY MR. WONG: Q. And I will be taking 09:17:31
6 at this deposition?	6 breaks during the day, Mr. Li. I'll try to take a
7 A. No, I am not.	7 break about every hour.
8 Q. Have you been deposed before, Mr. Li?	8 But if you would like to take a break for
9 A. Yes, I have.	9 any reason, just let me know, and I will try to
10 Q. Okay. I'm just going to go over some of 09:16:03	B 10 accommodate that, okay? 09:17:40
11 the ground rules of a deposition just to refresh how	11 A. Thank you.
12 this goes.	12 Q. Mr. Li, do you maintain a profile on the
13 Mr. Li, do you understand that you are	13 Web site called LinkedIn?
14 testifying under oath under penalty of perjury?	14 A. I do.
15 A. I do. 09:16:14	MR. WONG: Let's mark this as Exhibit 136, 09:18:01
16 Q. Do you understand that the testimony that	16 please.
17 you are providing today is as if you were testifying	17 (Exhibit 136 was marked for identification
18 in court?	18 by the court reporter and is attached hereto.)
19 A. I do.	19 BY MR. WONG: Q. Court reporter has marked
20 Q. The court reporter is writing down 09:16:21	20 Exhibit 136. 09:18:19
21 everything that we say, so it's important to give	21 Mr. Li, do you have Exhibit 136 in front of
22 verbal answers to my questions.	22 you?
Do you understand?	23 A. 1 do.
24 A. I do.	24 Q. Okay. Do you recognize Exhibit 136?
Q. It's also important that we don't speak 09:16:29	25 A. This appears to be my profile for LinkedIn. 09:18:25 Page 12
Page 10	rage 12
1 over each other. So I'll do my best to let you	1 Q. Can you please take a moment to look at
2 finish your answers before I ask the next question	2 Exhibit 136 and let me know if the information is
3 and I would ask that you let me finish my next	3 up-to-date and accurate.
4 question before you begin your answer.	4 A. It is accurate. It is reasonably
5 Is that clear? 09:16:41	5 up-to-date, but it is not complete. 09:18:48
6 A. Yes.	6 Q. What is incomplete about the information on
7 Q. If there is a question that I ask that you	7 Exhibit 136?
8 don't understand, please let me know, and I'll try	8 A. In particular, it is not a complete list of
9 to clarify it, okay?	9 patents and publications.
10 A. Okay. 09:16:48	10 Q. Is there anything else that is incomplete 09:19:01
11 Q. Otherwise, if you answer my question, I'll	11 about Exhibit 136?
12 assume that you understood my question.	12 A. I don't believe you know, my work
13 A. Okay.	13 history here only goes back to '91.
14 Q. Okay. Is there any reason, Mr. Li, that	14 Q. Anything else, Mr. Li?
15 you can't give full and truthful testimony today? 09:16:57	15 A. No. 09:19:21
16 A. No.	16 Q. What is your educational background,
17 Q. Mr. Li, I know you're not represented by	17 Mr. Li?
18 counsel today. If there is any answer that you	18 A. I have a B.S. in mathematics from
19 provide today that you would like to request to	19 Harvey Mudd College and a Ph.D. in computer science
20 designate confidential under the protective order in 09:17:09	20 from USC. 09:19:39
21 this case, please state that on the record.	21 Q. When did you receive your B.S. in
22 A. Okay.	22 mathematics from Harvey Mudd?
23 MR. PAK: Mr. Li, I'll also add that, on	23 A. '82.
24 behalf of Cisco, I'll be making some objections from	Q. And when did you receive your Ph.D. from
25 time to time just to preserve the record. And 09:17:21	25 USC? 09:19:49
Page 11	Page 13
	4 (Dagge 10 12)

Case 5:14-cv-05344-BLF Document 512-8 Filed 09/06/16 Page 20 of 122 CONFIDENTIAL INFORMATION UNDER THE PROTECTIVE ORDER

1 A. 1990, 2 Q. And the USC you're referring to, that's the 3 University of Southern California, correct? 4 A. Correct. 5 Q. Do you have any other degrees besides the 09:19:58 6 backelor's degree and your Ph.D.? 7 A. No. 8 Q. Your LinkedIn profile marked as Exhibit 136 9 states that you attended Rutgers University; is that 10 correct? 9 09:20:20 11 A. I spent one year at Rutgers Did not get a 12 degree there. 13 Q. Was your focus at the University of 14 Southern California on arything in particular? 15 A. I was working on a Ph.D. in computer 09:20:31 16 science in the programming languages area. 17 Q. What programming languages were you working 18 on. 19 A. So it was not a specific language. It was 20 in language theory, and in particular I was working 09:20:47 21 on compiler specifications. 22 Q. What routing protocols, if any, did you 23 learn about as part of obtaining your Ph.D. at USC? 24 A. None, however, as a postdoc at USC, 1 25 actually worked on IDPR, Inter-Domain Policy 09:21:13 Page 14 1 Routing. 1 Routing. 2 Q. Inter-Domain Policy Routing? 3 A. Correct. Also, while I was assist admin at 4 USC, I was a network administrator, so I had 5 familiarity there with EGP and IGRP. 09:21:41 6 Q. What is EGP? 7 A. Roe Refresher of the ministrator, so I had 5 familiarity there with EGP and IGRP. 09:21:41 6 Q. You mentioned IDPR as part of your postdoc 09:22:04 11 work; correct? 12 A. Correct. 13 Q. Can you describe for me how you worked with
3 University of Southern California; correet? 4 A. Correct. 5 Q. Do you have any other degrees besides the 09:19:58 6 bachelor's degree and your Ph.D.? 7 A. No. 8 Q. Your LinkedIn profile unarked as Exhibit 136 9 states that you attended Rutgers University; is that 10 correct? 09:20:20 11 A. I spent one year at Rutgers. Did not get a 12 degree there. 12 Q. Was your focus at the University of 14 Southern California on anything in particular? 15 A. I was working on a Ph.D. in computer 09:20:31 6 science in the programming languages area. 17 Q. What programming languages were you working 18 on. 19 A. So it was not a specific language. It was 20 in language theory, and in particular I was working 09:20:47 21 on compiler specifications. 22 Q. What routing protocols, if any, did you 23 learn about as part of obtaining your Ph.D. at USC? 24 A. None; however, as a postdoc at USC, 1 25 actually worked on IDPR, Inter-Domain Policy Objection of GPR and protocols, if any, did you 24 LUSC; I was a network administrator, so I had 5 familiarity there with EGP and IGRP. 09:21:41 4 USC, I was a network administrator, so I had 5 familiarity there with EGP and IGRP. 09:21:41 6 Q. What is IGRP? 3 A. Correct. Also, while I was assist admin at 4 USC, I was a network administrator, so I had 5 familiarity there with EGP and IGRP. 09:21:41 6 Q. What is IGRP? 3 A. Exterior Gateway Protocol. 8 Q. And what is IGRP? 4 A. Exterior Gateway Protocol. 10 Q. You mentioned IDPR as part of your postdoc 09:22:06 11 work; correct? 12 A. Correct. 12 Q. And what was your experience as a sys admin
4 A. Correct. 5 Q. Do you have any other degrees besides the 09:19:58 6 backbelor's degree and your Ph.D.? 7 A. No. 8 Q. Your LinkedIn profile marked as Exhibit 136 9 states that you attended Rutgers University; is that 10 correct? 11 A. I spent one year at Rutgers. Did not get a 12 degree there. 12 degree there. 13 Q. Was your focus at the University of 14 Southern California on anything in particular? 15 A. I was working on a Ph.D. in computer 09:20:31 16 science in the programming languages area. 17 Q. What programming languages were you working 18 non. 19 A. So it was not a specific language. It was 20 in language theory, and in particular I was working 09:20:47 21 on compiler specifications. 22 Q. What routing protocols, if any, did you 23 learn about as part of obtaining your Ph.D. at USC? 24 A. None; however, as a postdoc at USC, I 25 actually worked on IDPR, Inter-Domain Policy Page 14 1 Routing. 2 Q. Inter-Domain Policy Routing? 3 A. Correct. Also, while I was assist admin at 4 USC, I was a network administrator, so I had 5 familiarity there with EGP and IGRP. 3 A. Correct Also, while I was assist admin at 4 USC, I was a network administrator, so I had 5 familiarity there with EGP and IGRP. 4 Q. How do you know that? A. Yex read the RFC. 8 Q. What is an RFC, Mr. Li? 9 A. It as a Request For Comments that is a 10 document from the Internet Engineering Task Force, 09:23:31 11 IETP, that they use for standardizing protocols. 12 I'm unaware of the exact standards placement of13 or progression of EGP at this time. It's probably 14 moved to historic by 09:24:01 16 science in the programming languages were you working 18 no. 19 A. So it was not a specific language. It was 20 in language theory, and in particular I was working 09:20:47 20 Q. What routing protocols, if any, did you 20 in compute of the exact standards placement of13 or progression of EGP at this time. It's probably 14 moved to historic by 09:24:01 18 tandards, and standards that are no longer actively 19 used or recommended are
5 Q. Do you have any other degrees besides the 09:19:58 6 bachelor's degree and your Ph.D.? 7 A. No. 8 Q. Your LinkedIn profile marked as Exhibit 136 9 states that you attended Rutgers University; is that 10 correct? 10 9:20:20 11 A. I spent one year at Rutgers. Did not get a 12 degree there. 13 Q. Was your focus at the University of 14 Southern California on anything in particular? 15 A. I was working on a Ph.D. in computer 09:20:31 16 science in the programming languages area. 17 Q. What programming languages area. 18 on. 19 A. So it was not a specific language. It was 20 in language theory, and in particular I was working 21 on compiler specifications. 22 Q. What routing protocols, if any, did you 23 learn about as part of obtaining your Ph.D. at USC? 24 A. None; however, as a postdoc at USC, I 25 actually worked on IDPR, Inter-Domain Policy 20 Q. Inter-Domain Policy Routing? 3 A. Correct. Also, while I was assist admin at 4 USC, I was a network administrator, so I had 5 familiarity there with EGP and iGRP. 09:21:41 6 Q. What is EGP? A. Exterior Gateway Protocol. 8 Q. And what is IGRP? 9 A. Interior Gateway Protocol. 10 Q. You mentioned IDPR as part of your postdoc 11 work; correct? 12 Q. Hore Control of Dianimal Policy O9:22:06 12 Q. Hore Omain Policy Routing? 3 A. Correct. Also, while I was assist admin at 4 USC, I was a network administrator, so I had 5 familiarity there with EGP and iGRP. 09:21:41 6 Q. What is EGP? A. Exterior Gateway Protocol. 9 Q. And what is IGRP? 9 A. Interior Gateway Protocol. 10 Q. You mentioned IDPR as part of your postdoc O9:22:06 11 work; correct? 12 Q. Hore read the RFC. 13 Q. What is an RPC, Mr. Li? 9 A. It as a Request For Comments that is a 10 document from the Internet Engineering Task Force, 09:23:11 11 IETF, that they use for standardizing protocols. 12 I'm unaware of the exact standardars placement of13 or progression of EGP at this time. It's probably 14 inoved to historic by ow. 15 Q. When you say it's "moved to historic by onw. 16 Now, "what doyou mean by that? 17
6 bachelor's degree and your Ph.D.? 7 A. No. 8 Q. Your LinkedIn profile marked as Exhibit 136 9 states that you attended Rutgers University; is that 10 correct? 09:20:20 11 A. I spent one year at Rutgers. Did not get a 12 degree there. 13 Q. Was your focus at the University of 14 Southern California on anything in particular? 15 A. I was working on a Ph.D. in computer 16 science in the programming languages area. 17 Q. What programming languages area. 18 on. 19 A. So it was not a specific language. It was 20 in language theory, and in particular I was working 21 in language theory, and in particular I was working 22 Q. What routing protocols, if any, did you 23 learn about as part of obtaining your Ph.D. at USC? 24 A. None; however, as a postdoc at USC, I 25 actually worked on IDPR, Inter-Domain Policy 2 Q. Inter-Domain Policy Routing? 3 A. Correct. Also, while I was assist admin at 4 USC, I was a network administrator, so I had 5 familiarity there with EGP and IGRP. Q. What is BGP? 9 A. It as a Request For Comments that is a 10 document from the Internet Engineering Task Force, 99.23:2 11 IETF, that they use for standardizing protocols. 12 I'm unaware of the exact standards placement of - 13 or progression of EGP at this time. It's probably 14 moved to historic by now. 15 Q. When you say it's "moved to historic by 09:24:01 16 now," what do you mean by that? 17 A. So the IETF has a progression for 18 standards, and standards that are no longer actively 19 used or recommended are moved to historic to 20 indicate that they are no longer productive. 21 Q. You also mentioned IGRP. Can you describe 22 to me what IGRP is. 23 A. IGRP is Cisco's proprietary, what do you 09:24:40 Page 11 mean by that? 2 A. Cisco owns the code, has a patent on the 3 or on the concepts behind the implementation, and as 4 far as I know, has not licensed it with the 5 exception of licensing their whole source code 09:24:58 6 stack. 7 Q. How did you work with EGP while you were a 8 sys admin? 9 A. So I was responsible for maintaining EGP
7 A. No. 8 Q. Your LinkedIn profile marked as Exhibit 136 9 states that you attended Rutgers University; is that 10 correct? 11 A. I spent one year at Rutgers. Did not get a 12 degree there. 13 Q. Was your focus at the University of 14 Southern California on anything in particular? 15 A. I was working on a Ph.D. in computer 16 science in the programming languages area. 17 Q. What programming languages area. 18 on. 19 A. So it was not a specific language. It was 20 in language theory, and in particular I was working 20 in language theory, and in particular I was working 21 actually worked on IDPR, Inter-Domain Policy 22 Q. What routing protocols, if any, did you 23 learn about as part of obtaining your Ph.D. at USC? 24 A. None; however, as a postdoc at USC, I 25 actually worked on IDPR, Inter-Domain Policy 2 Q. Inter-Domain Policy Routing? 3 A. Correct. Also, while I was assist admin at 4 USC, I was a network administrator, so I had 5 familiarity there with EGP and IGRP. Q. What is EGP? A. Exterior Gateway Protocol. Q. Vou mentioned IDPR as part of your postdoc Q. Q. You mentioned IDPR as part of your postdoc Q. Q. And what is IGRP? Q. What is an RFC, Mr. L.? 9 A. It as a Request For Comments that is a 10 document from the Internet Engineering Task Force, 09:23: 11 IETF, that they use for standardizing protocols. 12 I'm unaware of the exact standards placement of 13 or progression of EGP at this time. It's probably 14 moved to historic by now. 15 Q. When you say it's 'moved to historic by 09:24:01 16 now," what do you mean by that? 17 A. So the IETF has a progression for 18 standards, and standards that are no longer actively 19 used or recommended are moved to historic to 20 indicate that they are no longer productive. 21 Q. You also mentioned IGRP. Can you describe 22 to me what IGRP is 23 A. IGRP is Cisco's proprietary, what do you 09:24:44 Protocol. 25 Q. When you say Cisco proprietary, what do you 09:24:44 Pager 1 mean by that? 2 A. Cisco owns the code, has a patent on the 3 or on the concepts behin
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11 work; correct?
12 A. Correct. 12 Q. And what was your experience as a sys admin
13 Q. Can you describe for me how you worked with 13 working with IGRP?
14 IDPR in your postdoc work at USC. 14 A. So I was maintaining the Los Nettos Network
15 A. So I was working for Deborah Estrin, and 09:22:24 I5 which was a small regional network in Los Angeles. 09:25:24
16 she was collaborating with Martha Steenstrup of 16 We used IGRP for routing between the sites and our
17 Bolt, Beranek & Newman in Boston. They was a 17 small network.
18 they had some sort of research contract to develop a 18 Q. And what period of time were you a sys
19 routing protocol that supported policy routing. 19 admin for USC?
20 Q. Was IDPR a proprietary standard? 09:22:43 20 A. Approximately 1983 through 1990. 09:25:36
21 A. I have no idea. 21 Q. Besides IDPR, EGP and IGRP, did you work
22 Q. You said you worked at you worked on EGP 22 with any other routing protocols while you were
23 while as a sys admin at USC; is that correct? 23 either obtaining your Ph.D. or serving as a postdoc?
24 A. That's correct. 24 A. Probably. So I do not recall the details,
25 Q. What is EGP? 09:23:07 25 but I do know that we had also a DECnet network, and 09:26:1
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1 I believe that DECnet routing was involved, and that	1 A. I do.
2 is a uses an internal routing protocol that is	2 Q. What is a command line interface?
3 very simple similar to RIP.	3 A. A command line interface is a means for a
4 Q. Now, you said DECnet. What is DECnet?	4 user to enter commands typing out names of words and
5 A. DECnet was a proprietary networking stack 09:26:36	5 then interacting with a computer by having the 09:29:50
6 from Digital Equipment Corporation.	6 computer respond to those words.
7 Q. So the DEC in DECnet stands for	7 Q. If I use the term "CLI," will you
8 Digital Equipment Corporation?	8 understand that I'm referring to a command line
9 A. Yes.	9 interface?
10 Q. When you say "we also had a DECnet 09:26:56	10 A. I understand. 09:30:06
11 network," who is "we"?	11 Q. Did the VAX/VMS operating system have a
12 A. I was referring to my employers at USC, in	12 command line interface?
13 particular engineering computer services which then	13 A. It did.
14 became university computing services.	14 Q. Can you describe for me generally how the
15 Q. What experience did you have working with 09:27:20 16 the DECnet network at USC?	15 VAX/VMS command line interface worked. 09:30:17
	16 A. It was a very standard command-and-response
17 A. Mostly it was frustrating. The DECnet 18 network was interconnecting the router the	17 interface. Predominant were set and show. Change
19 various hosts around the campus, allowing students	18 parameters and then display parameters.19 Q. When you say "very standard
20 and faculty to move data around between the various 09:27:36	20 command-and-response interface," what do you mean by 09:30:39
21 computers.	21 "very standard"?
22 Q. What was the operating system like on the	22 A. So very similar to other things in the
23 DECnet network?	23 industry.
24 A. So we had multiple systems speaking DECnet.	24 Q. At that time?
25 There were many VAXes running the VMS operating 09:27:54	
Page 18	Page 20
l system. We also had several systems running	Q. And approximately what time period are we
2 TOPS-20.	2 talking about, Mr. Li?
3 Q. You said VAX/VMS. Does that stand for	3 A. The first time I saw VMS was '81.
4 anything?	4 Q. You mentioned that set and show commands
5 A. VAX is virtual address extension. VMS is 09:28:15	5 were predominant in VAX/VMS; correct? 09:31:13
6 virtual memory system.	6 A. Mm-hmm.
 Q. How much experience did you have working 	7 Q. Were there any other commands that you
8 with the VAX/VMS operating system?	8 recall from using the VAX/VMS command line
9 A. I was a system administrator for several	9 interface?
10 years while at USC. 09:28:36	10 A. There were many other commands, and you 09:31:25
11 Q. And how many years of experience did you	11 could easily extend it by adding additional commands
12 have working with the TOPS-20 operating system?	12 to it, so
13 A. I was only a user of TOPS-20. I got my	13 Q. How would you extend it by adding
14 first TOPS-20 account in 1982. I probably used	14 additional commands to it?
15 that well, at least eight years, so 09:29:03	15 A. So the entire operating system CLI was 09:31:39
16 Q. So as a user, you used TOPS-20 for	16 built around what was called DCL, digital command
17 approximately eight years?	17 language. You so actually write command definitions
18 A. Yes.	18 and add those to the CLI.
19 Q. And approximately how many years did you	19 Q. Were you familiar with digital command
20 work as a system administer [sic] for the VAX/VMS 09:29:17	20 language at the time? 09:32:00
21 operating system?	21 A. Slightly.
	22 Q. Did the show commands in VAX/VMS follow any
22 A. I'm not certain. I believe it was	
23 approximately 1983 through about 1987.	23 particular syntax?
 23 approximately 1983 through about 1987. 24 Q. Mr. Li, do you know what a command line 	23 particular syntax?24 A. Yes. They typically were invoked by show
23 approximately 1983 through about 1987.	23 particular syntax?

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1 parameters. The parameters were delineated by a	1 feature while you were working with TOPS-20?
2 slash and then parameter name. Sometimes there was	2 A. Yes.
3 a value attached with an equal sign and then a value	3 Q. Is the recollection you just described
4 attached to a given parameter. The set commands	4 based upon your hands-on experience with TOPS-20?
5 were pretty much the same way. 09:32:39	5 A. Yes, it is. 09:35:27
6 Q. Now, you said, "typically were invoked" was	6 Q. Now, you said TOPS-20 had a similar syntax
7 part of your answer about how show commands worked.	7 to VMS.
8 Were there any exceptions to the syntax you	8 What was similar about the TOPS-20 command
9 just described?	9 syntax to the VAX/VMA command syntax?
10 A. Well, that was very much a generalization, 09:32:58	10 A. Again, the general intent of or design 09:35:58
11 so yes.	11 of the in the language was an imperative language
12 Q. What was the command syntax like for	12 where they would design it as verb and then noun,
13 TOPS-20?	13 noun. So you would give the command as SHO and then
14 A. TOPS-20 had a command syntax that was	14 some parameters to go with it.
15 somewhat similar to VMS. The notable difference was 09:33:22	The details of the syntax were definitely 09:36:23
16 that TOPS-20 allowed for a command completion, and	16 different. TOPS-20 in particular never used a slash
17 so you could use escape and tab and question mark	17 as a parameter separator.
18 characters to interact directly with the command	18 Q. Now, you've used the word "parameter" to
19 line interpreter while you were typing a command	19 describe the syntax for both VAX/VMS and TOPS-20?
20 line. 09:33:42	20 A. Mm-hmm. 09:36:46
21 Q. What type what time period are you	21 Q. What do you mean by a parameter?
22 talking about here, Mr. Li?	22 A. It's a qualifier or other conditional
23 A. I am unaware of when TOPS-20 first came	23 information about the specific request.
24 out.	Q. Can you give me an example of what would be
25 Q. At what time period were you working with 09:33:54	25 a command parameter? 09:36:56
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1 TOPS-20?	A. For example, if the database of files had a
2 A. Again, I got my first TOPS-20 account in	2 set of file names, you could give a directory
3 1982.	3 command which would show the files in the directory.
4 Q. Okay. So these features you just	4 Then you could also give directory followed by a
5 described, command completion, were those in TOPS-20 09:34:05	5 parameter which would explain which would specify 09:37:17
6 when you first got your account in 1982?	6 some subset of the files that you would like to see.
7 A. Yes.	7 Q. Besides VAX/VMS and TOPS-20, did you have
8 Q. What is command completion?	8 experience with any other command line interfaces?
9 A. Command completion is the ability for the	9 A. Many.
10 command line interpreter to infer from what the user 09:34:25	10 Q. Okay. What other command line interfaces 09:37:43
11 has typed as a partial command and then actually	11 do you have experience with, Mr. Li?
12 have it type out the rest of the command for the	12 A. That could take a while. CPM, VMCMS.
13 user.	13 Let's see. Concurrent CPM, MS-DOS, RSX-11M.
14 Q. Can you give me an example of how command	14 Probably many others.
15 completion would work in a TOPS-20 command line 09:34:41	15 Q. Which of those existed prior to 1985? 09:38:15
16 interface.	16 A. All of those.
17 A. Oh, dear. So not accurately.	17 Q. Did any of those exist prior to 1980?
18 Approximately, you would type a partial command. So	18 A. Yes, very definitely. Let's see. UNIX
19 for example, if you were to type "SHO," S-H-O, and	19 already existed. There was a CLI there. I believe
20 then complete it, you would get the W and then a 09:34:58	20 that CPM predates 1980. 09:38:38
21 space, so you could then enter a parameter.	21 Q. And did you work directly with all of the
22 MR. PAK: I'm going to object that this	22 command line interfaces that you just recited?
23 calls for expert testimony. Speculation.	23 A. Yes.
24 BY MR. WONG: Q. Mr. Li, did you use the	
24 DI MAX. WONG. Q. MI. LI, did you use the	Q. In what capacity did you work with those
25 command did you use the command completion 09:35:17	25 command line interfaces? 09:39:02

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r		,	
1	A. That varies. I was a programmer at		accessible to the system administrator.
2	Digital Research working on CPM, so I was a	1	Q. When you say "privileged," what do you mean
3	developer in that role. Most of the others I was a		3 by that?
4	user.	4	A. The system administration and management
5	Q. When were you a programmer at 09:39:12	1	5 commands are cannot be executed by a normal user. 09:42:46
	Digital Research?		6 Q. Were there similar separations of command
		1	7 sets in any of the other operating systems that we
7			
1	summers of 1982 and 1981.	1	3 discussed this morning?
9		٩	•
10	Actually, what was the command syntax used 09:39:34	10	Q. What describe for me the separation in 09:43:08
11	for CPM?	11	command sets that existed in TOPS-20.
12	A. Again, it was very similar to use what	12	A. As a user of TOPS-20, I don't recall the
13	was used in TOPS-20 and VMS. Again, verb, noun and	13	details of the administration commands, so I never
14	qualifiers.	14	used them.
15	Q. What were some of the verbs that were used 09:39:52	15	Q. Were the administration commands in TOPS-20 09:43:25
16	in the command set for CPM?	16	accessible to you as a user?
17		17	
18	Q. Do you recall any of the verbs that were	18	
1	used in the command sets for TOPS-20?	19	· ·
20	A. Info, show, DIR. I've forgotten most of 09:40:07		one could use if you were a system administrator. 09:43:46
	the others.	21	` ' '
22	Q. You mentioned MS-DOS as one of the command	22	came up with, Mr. Li?
23	line interfaces that you had worked with; correct?	23	A. No. I'm sure that several of I've
24	A. Mm-hmm.	24	picked that up somewhere, but that is commonly used.
25	Q. In what context did you work with MS-DOS? 09:40:30	25	`
	Page 26		Page 28
1	A. Just as a user.	1	A. Throughout the industry to indicate that
2	Q. And that was in the early 1980s?	2	people certain administrators have abilities that
3	A. At some point, yes.	3	are past normal users.
4	Q. You also mentioned UNIX as a system that	4	Q. Was the term "privileged" commonly used at
5	you have experience with; correct? 09:40:54	5	the time that you were working on VAX/VMS? 09:44:30
6	A. That's correct.	6	•
7	Q. In what context did you work with the UNIX		testimony.
		ļ	-
1	operating system?	8	, ,
9	A. I had access to a UNIX system as a user	1	recollection, Mr. Li.
1	starting in 1975. 09:41:03	10	
11	Q. Do you know how long UNIX has been in	11	Q. And what facts are you basing that answer
12	existence as an operating system?	12	on?
13	A. No, I don't.	13	A. I was a system administrator for a VMS
14	Q. And how many years did you work with the	14	system.
15	UNIX operating system? 09:41:22	15	Q. Did you use the term "privileged" to 09:44:50
16	A. I've been working with it on and off since	16	describe commands that were accessible only to
	1975.		system administrators at the time you were working
18	Q. Can you describe for me how the UNIX CLI	ļ	on VAX/VMS?
1	worked?	19	A. Probably.
20			
1			
1	parameters structure with a verb and then nouns and		term?
	qualifiers behind it.	22	A. Very likely.
23	Q. Were all commands available to a UNIX user?	23	Q. You mentioned VMCMS. What experience did
24	A. There are commands that are not available	24	you have working with VMCMS?
25	that they are they're privileged and only 09:42:33	25	A. So USC maintained, in addition to numerous 09:45:27
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1 DEC systems, also had several IBM systems. VMCMS is 2 an operating system for IBM mainframes, and USC had 3 one and I had an account on the VM system. 4 Q. And what was the command syntax like for 5 the CLI on VMCMS? 9 09-45:55 6 A. I'm sorry. I don't remember. 7 Q. You mentioned R3X-IIM? 8 A. It's 11M. 9 Q. I'll M. Sorry. 10 A. This was an operating system for PDP-11s. 09:46:06 11 Q. What are PDP-11s? 12 A. That was a computer built by 13 Digital Equipment Corporation. 14 Q. Do you recall the command syntax of the 15 command line interface used on the RSX-I1M? 9 Q. You mentioned that the LinkedIn profile 18 that we marked as Exhibit 136 did not have your full 19 work history? 20 A. Correct. 21 Q. What work history is missing from your 22 LinkedIn profile? 23 A. In particular the sys admin positions that 24 I mentioned, summer internships predating. There 25 were several of those. Full-time positions that are 09:46:59 Page 30 I not relevant to my professional experience, 2 particularly while I was in high school. 3 Q. Sure. After you graduated from USC, what 4 did you do then? 5 A. So I next fall I went to Rutgers and 09:47:20 6 spent a year there, hated it and immediately 7 transferred to USC. 8 Q. Oh, I'm sorry. My question was after you 9 graduated from USC, what did you do after that? 1 projects throughout the router. I started off doing 2 mostly maintenance work and answering customer 3 questions. I then had several development projects. 4 My first development project was implementing 5 something called TCP header compression. 9 date from UsC was implementing 9 to adher you worke on TcP header 10 Q. And after you worke on TcP header 12 Cisco? 9 A. I had numerous routing small projects 13 BGP, Border Cateway Protocol. 14 Extending profecols as necessary. 15 Extending profecols as necessary. 16 A. That's Transmission Control Protocol. It's 17 part of the Internet Protocol suite. 18 Q. Is TCP an industry standard? 19 A. It is. 20 Q. Wast it an industry standard at the time you 09:49:37 21 worked on
3 one and I had an account on the VM system. 4 Q. And what was the command syntax like for 5 the CLI on VMCMS? 6 A. I'm sorry. I don't remember. 7 Q. You mentioned RSX-IIM? 8 A. It's 11M. 9 Q. 11M. Sorry. 10 A. This was an operating system for PDP-11s. 11 Q. What are PDP-11s? 12 A. That was a computer built by 13 Digital Equipment Corporation. 14 Q. Do you recall the command syntax of the 15 command line interface used on the RSX-11M? 16 A. No, I'm sorry. I don't. 17 Q. You mentioned that the LinkedIn profile 18 that we marked as Exhibit 136 did not have your full 19 work history? 20 A. Correct. 21 Q. What work history is missing from your 22 LinkedIn profile? 22 A. In particular the sys admin positions that 24 I mentioned, summer internships predating. There 25 were several of those. Full-time positions that are 24 I mentioned, summer internships predating. There 25 were several of those. Full-time positions that are 24 I mentioned, summer internships predating. There 25 were several of those. Full-time positions that are 24 I mentioned, summer internships predating. There 25 were several of those. Full-time positions that are 26 year every and the thing hashool. 3 Q. Sure. After you graduated from USC, what 4 did you do then? 5 A. So 1 - next fall I went to Rutgers and 09:47:20 6 spent a year there, hated it and immediately 7 transferred to USC. 8 Q. Oh, I'm sorry. My question was after you 9 graduated from USC, what did you do after that? 3 questions. I then had several development project was intended recommend ing called TCP header compression. 09:48:41 4 My first development project was implementing 5 something called TCP header compression, what else did you work on while at 8 Cisco? 9 A. I had numerous routing extending various interfaces and 09:48:58 10 within routing extending various interfaces and 09:48:58 11 within routing extending various interfaces and 09:48:58 11 within routing extending various interfaces and 09:48:58 12 My next big project was actually work in out in the face actually produ
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9 graduated from USC, what did you do after that? 9 it was publicly available, everyone was free to
10 4 10 1000 0 7 1 1 1 1 0 1 1 00 1730 10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
10 A. After USC? So I graduated in September 09:47:38 10 adopt it, and yet it did not have the backing of a 09:50:36
11 of 1990. I worked on a postdoc at USC with 11 formal standards body such as the IEEE.
12 Deborah Estrin and then took a position at 12 MR. PAK: I'll object to this line of
13 Cisco Systems. 13 questioning as calling for expert testimony.
14 Q. Do you know when you started at 14 BY MR. WONG: Q. Now, you said that the
15 Cisco Systems? 09:47:53 15 TCP standard was really a product of ARPANET; 09:51:10
16 A. January 14th, 1991. 16 correct?
17 Q. Why did you join Cisco after graduating 17 A. Correct.
18 from USC? 18 Q. What is ARPANET?
19 A. Lack of a better job. 19 A. ARPANET was a project from the Defense
20 Q. Did you apply elsewhere besides Cisco? 09:48:02 20 Department's Advanced Research Projects Agency to 09:51:18
21 A. I did. 21 build a network for computers that was highly robust
22 Q. And describe for me the projects that you 22 and relayed data between computers efficiently.
23 worked on while you worked at Cisco starting in 23 Q. How do you know that, Mr. Li?
24 1991. 24 A. Having worked on it for many, many years
25 A. I worked on a wide, wide variety of 09:48:22 Page 31 25 and been involved with it as soon as it became 09:51:34 Page 3
0 (Pages 20 2)

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CONTIDENTIAL IN CREMITTON	
1 available to USC and Rutgers.	1 A. IETF.
2 Q. And by "it," you mean ARPANET?	2 Q. What does HTTP stand for?
3 A. ARPANET.	3 A. Hypertext Transfer Protocol.
4 Q. You mentioned that TCP was part of an	4 Q. You mentioned RIP; correct?
5 Internet Protocol suite. Is that what you said? 09:51:47	5 A. Correct. 09:54:18
6 A. Correct,	6 Q. What does is that is that called RIP
7 Q. Were there any other protocols that were	7 by the industry?
8 part of the Internet Protocol suite?	8 A. Normally pronounced that way, yes.
9 A. Many.	9 Q. What does RIP stand for?
Q. Can you list off for me the protocols that 09:51:55	10 A. Routing Information Protocol. 09:54:27
11 you remember being part of the Internet Protocol	11 Q. Routing Information Protocol is also part
12 suite.	12 of the Internet Protocol suite you mentioned?
13 A. I'll give you a small set. HTTP; BGP; RIP,	13 A. It is.
14 R-I-P; DNS; DHCP. I could go on, but Susan's	Q. Is Routing Information Protocol an industry
15 fingers are going to fall off. 09:52:17	15 standard? 09:54:43
16 Q. You mentioned HTTP.	16 A. Yes, it is.
17 Is HTTP an industry standard?	17 Q. How long has Routing Information Protocol
18 A. It is.	18 been an industry standard?
19 Q. How do you know that?	19 A. I don't know when the RFC came out.
20 A. There is an RFC on it. I don't know what 09:52:31	
21 its exact standard status is but I believe it's at	21 manages the RIP protocol?
22 least proposed standard.	22 A. IETF.
Q. And how long has HTTP been an industry	23 Q. You mentioned DHCP?
24 standard, to your knowledge?	24 A. Correct.
25 MR. PAK: Calls for expert testimony. 09:52:49 Page 34	25 Q. What does DHCP stand for? 09:55:09 Page 36
1 THE WITNESS: Approximately 1992.	A. Dynamic Host Configuration Protocol.
2 BY MR. WONG: Q. And how do you know that,	2 Q. And is DHCP also an industry standard?
3 Mr. Li?	3 A. It is.
4 A. I first used a Web browser about that time,	4 Q. How do you know that, Mr. Li?
5 and had some involvement in developing a Web server 09:53:02	5 A. I've read the RFC. 09:55:21
6 for the Cisco router.	6 Q. What is the standard-setting body that
7 Q. You mentioned BGP?	7 manages DHCP?
8 A. Correct.	8 A. The IETF.
9 Q. What does BGP stand for?	9 Q. How long has DHCP been an industry
10 A. Border Gateway Protocol. 09:53:23	10 standard, to your knowledge? 09:55:42
11 Q. And BGP was part of the Internet Protocol	11 A. Since the early '90s.
12 suite?	12 Q. And how do you know that, Mr. Li?
13 A. Yes, it was.	13 A. He read the RFC.
14 Q. Was BGP also an industry standard?	14 Q. Back in the early '90s?
15 A. It is. 09:53:33	15 A. Yes. 09:55:51
16 Q. And how do you know that, Mr. Li?	16 Q. Why were you strike that.
17 A. I helped write the latest RFC on that.	17 Besides HTTP, BGP, RIP and DHCP, are there
18 Q. How long has BGP been an industry standard,	18 any other well-known protocols that are part of the
19 to your knowledge?	19 Internet Protocol suite?
20 A. BGP? 09:53:48	20 A. Many. 09:56:13
21 Q. BGP.	21 Q. Can you list for me a few more well-known
22 A. BGP has been an industry standard since	22 protocols from the Internet Protocol suite?
23 approximately 1993.	23 A. Well, the base protocol is IP, Internet
24 Q. And what is the standard-setting body that	24 Protocol. On top of that we have DNS, the Domain
25 established BGP as an industry standard? 09:54:02 Page 35	25 Name System. There's the File Transfer Protocol, 09:56:40 Page 37
1.00	1.00-21

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		_	
1	FTP; the Simple Mail Transfer Protocol, SMTP; Post	1	1 connection collisions.
	Office Protocol, POP; IMAP which is another mail		MR. PAK: At this point I'd like to mark
3	protocol.	ı	3 this deposition transcript as confidential
4	Q. And the protocols you just mentioned, are	4	information under the protective order.
5	all of them industry standards, to your knowledge? 09:57:04	1 :	BY MR. WONG: Q. And approximately what 09:59:38
6	A. They are.	1	5 time period did you work on this starter project on
7	Q. What standard-setting body manages the	7	7 BGP?
8	Internet Protocol?	8	A. Approximately 1992.
9	A. Internet Engineering Task Force.	9	Q. What were you upgrading from BGP Version 2
10	Q. And what standard-setting body manages the 09:57:17	10	to BGP Version 3? 09:59:57
11	DNS protocol?	11	A. So the internal implementation of BGP
12	A. IETF.	12	required a change. The version number required
13	Q. Is the IETF the standard-setting body for	13	changing.
14	each of the protocols you just mentioned?	14	Q. When you say "internal implementation,"
15	A. Yes. 09:57:31	15	what do you mean by that? 10:00:14
16	Q. We just went through several acronyms for	16	A. The code that actually performs the
17	different industry standard protocols; correct?	17	functions inside the router.
18	A. Yes.	18	Q. And describe for me generally what is the
19	Q. Was "HTTP" a well-known term used in the	19	function of a router?
20	networking industry at the time that you first 09:58:00	20	A. Its purpose is to receive packets and 10:00:34
21	started working with it?	21	decide where they should go and then send them out
22	A. No, it was not well-known.	22	to the best interface in the network.
23	Q. When did you start working with HTTP again?	23	Q. When you say the word "interface," what do
24	A. Very early '90s. Probably '92, '93 time	24	you mean by "interface"?
25	frame. 09:58:17	25	A. That is the connection of the router to 10:00:58
	Page 38	_	Page 40
1	Q. Did HTTP ever become a well-known acronym	1	another router via a link of some flavor.
2	in the industry?	2	Communications channel.
3	A. Yes. It's very well-known.	3	Q. Was "router" a commonly used term at the
4	Q. It's very well-known today?	4	time that you were working on this BGP project for
5	A. Today. 09:58:27	5	Cisco? 10:01:17
6	Q. Do you approximately when HTTP became a	6	A. It was. It's also known as a gateway in
7	well-known acronym, to your knowledge?	7	some circumstances.
8	MR. PAK: Objection. Calls for expert	8	Q. Were there any particular routers that your
9	testimony.	9	project applied to?
10	THE WITNESS: Approximately 1995. 09:58:33	10	A. In particular it applied to the Cisco AGS 10:01:42
11	BY MR. WONG: Q. Why do you say 1995,		Plus and the remainder of Cisco's product line at
12	Mr. Li?	12	the time.
13	A. That's when most people started using the	13	Q. After you worked on this BGP project, what
14	Web.		else did you do at Cisco?
15	Q. Let's go back to your description of 09:58:40	15	A. I've worked on many different things. The 10:02:1
16 1	responsibilities when you were working at Cisco		silicon switch engine, various other routing
17 s	starting in 1991.	17	protocol maintenance tasks, the router called GSR.
18	The last thing you mentioned was that you	18	Q. And just to be clear, Mr. Li, are we
19 s	started working on a BGP project; correct?	19	talking about the time period where you first
20	A. Correct. 09:59:07	20	started working at Cisco in 1991? 10:02:37
21	Q. Describe for me what that BGP project	21	A. That was just the '91 through '96 time
22 €	entailed.	22	frame.
23	A. So my starter project on BGP was to upgrade	23	Q. Now, you mentioned performing various other
24 i	t from BGP Version 2 to Version 3 of the protocol.	24	routing protocol maintenance tasks.
27 I		25	What other routing protocols did you work 10:02:54

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		-	
1	1 with during this 1991 through 1996 time period at		A. The standard the standard for IS-IS.
2	2 Cisco?	1 2	MR. PAK: Ryan, when you get a chance, can
3	A. Everything else in the IP protocol suite	3	we take a break? We've been going for about an
4	within Cisco. This includes RIP, IGRP, EIGRP, EGP,	4	4 hour.
5	OSPF, IS-IS. I also had my hands in some of the 10:03:14	5	MR. WONG: Sure. We can take a break now. 10:05:45
6	5 CLNS stack.	1	THE WITNESS: Thank you.
7	Q. What is OSPF?	7	THE VIDEOGRAPHER: Going off the record.
8	A. Open Shortest Path First routing protocol	8	The time is 10:05.
9	from the IETF.	9	(Recess taken from 10:05 a.m. to
10	THE REPORTER: Would you mind repeating 10:03:43	10	10:11 a.m.) 10:11:25
11	that. I'm sorry.	11	THE VIDEOGRAPHER: We're back on the
12	THE WITNESS: Open Shortest Path First	12	record. The time is 10:11.
13	routing protocol from the IETF.	13	BY MR. WONG: Q. Mr. Li, you used the
14	THE REPORTER: Thank you.	14	acronym BGP to refer to the Border Gateway Protocol;
15	BY MR. WONG: Q. And the RIP and the IGRP 10:03:51	15	correct? 10:11:46
16	you just mentioned, those are the same RIP and IGRP	16	A. Correct.
17	you were discussing earlier today; correct?	17	Q. Is BGP a commonly known acronym for Border
18	A. Yes.	18	Gateway Protocol?
19	Q. You mentioned IS-IS.	19	
20	What is IS-IS? 10:04:00	20	Q. Okay. Is it a strike that. 10:11:54
21	A. This is another routing protocol that comes	21	Why do you use the term "BGP" to refer to
22	from the ISO protocol stack and the OSI standards	22	the Border Gateway Protocol?
23	hody. It supports routing for both CLNP and IP.	23	A. So that's the acronym that is used within
24	Q. What is CLNP?	24	the industry.
25		25	Q. When you say that's the acronym that's used 10:12:10
_	Page 42	ļ	Page 44
1	Q. And is that protocol also an industry	1	within the industry, you're referring to the BGP
2	standard?	2	acronym; correct?
3	A. It is.	3	A. Correct.
4	Q. What is the standard-setting body that	4	Q. And when you say "the industry," what do
5	manages CLNP? 10:04:37	5	you mean by "the industry"? 10:12:21
6	A. ISO.	6	A. Computer network.
7	Q. What is ISO?	7	Q. And how long as BGP been used as an acronym
8	A. International Standards Organization.	8	within the computer networking industry, to your
9	Although that's more formally it's the official	9	knowledge?
10	name is in French, so 10:04:53	10	A. Since BGP was first introduced, which I 10:12:42
11	Q. When you were talking about IS-IS, you	11	believe was approximately 1989.
12	mentioned the OSI standards body.	12	Q. Okay. And why do you use the term "RIP" or
1	· · · · · · · · · · · · · · · · · · ·	12	R-I-P to refer to Router Information Protocol?
13	Do you remember that?	13	10 11 to refer to reader information reducer.
13	Do you remember that? A. That's correct.	14	A. That is the common acronym used for that
1		14	
14 15 16	A. That's correct.Q. What is the OSI standards body? 10:05:04A. Open systems I don't remember the full	14	A. That is the common acronym used for that
14 15 16	A. That's correct. Q. What is the OSI standards body? 10:05:04	14 15	A. That is the common acronym used for that protocol. 10:13:21
14 15 16	A. That's correct.Q. What is the OSI standards body? 10:05:04A. Open systems I don't remember the full	14 15 16	A. That is the common acronym used for that protocol. Q. In the networking industry?
14 15 16 17 18	A. That's correct. Q. What is the OSI standards body? 10:05:04 A. Open systems I don't remember the full expansion. Sorry.	14 15 16 17 18	A. That is the common acronym used for that protocol. 10:13:21 Q. In the networking industry? A. In the networking industry.
14 15 16 17 18	A. That's correct. Q. What is the OSI standards body? 10:05:04 A. Open systems I don't remember the full expansion. Sorry. Q. Okay. So who was the standard-setting body	14 15 16 17 18	A. That is the common acronym used for that protocol. 10:13:21 Q. In the networking industry? A. In the networking industry. Q. And how long has RIP been a commonly used
14 15 16 17 18 19 20	A. That's correct. Q. What is the OSI standards body? 10:05:04 A. Open systems I don't remember the full expansion. Sorry. Q. Okay. So who was the standard-setting body for 1S-IS?	14 15 16 17 18	A. That is the common acronym used for that protocol. Q. In the networking industry? A. In the networking industry. Q. And how long has RIP been a commonly used acronym in the networking industry?
14 15 16 17 18 19 20	A. That's correct. Q. What is the OSI standards body? 10:05:04 A. Open systems I don't remember the full expansion. Sorry. Q. Okay. So who was the standard-setting body for IS-IS? A. I believe that was falls under ISO which 10:05:20	14 15 16 17 18 19 20 21	A. That is the common acronym used for that protocol. Q. In the networking industry? A. In the networking industry. Q. And how long has RIP been a commonly used acronym in the networking industry? A. I don't know. 10:13:30
14 15 16 17 18 19 20 21	A. That's correct. Q. What is the OSI standards body? 10:05:04 A. Open systems I don't remember the full expansion. Sorry. Q. Okay. So who was the standard-setting body for IS-IS? A. I believe that was falls under ISO which 10:05:20 is the child of OSI.	14 15 16 17 18 19 20 21	A. That is the common acronym used for that protocol. Q. In the networking industry? A. In the networking industry. Q. And how long has RIP been a commonly used acronym in the networking industry? A. I don't know. 10:13:30 MR. PAK: Objection. Calls for expert
14 15 16 17 18 19 20 21 22	A. That's correct. Q. What is the OSI standards body? 10:05:04 A. Open systems I don't remember the full expansion. Sorry. Q. Okay. So who was the standard-setting body for IS-IS? A. I believe that was falls under ISO which 10:05:20 is the child of OSI. Q. And how do you know that, Mr. Li?	14 15 16 17 18 19 20 21 22 23	A. That is the common acronym used for that protocol. Q. In the networking industry? A. In the networking industry. Q. And how long has RIP been a commonly used acronym in the networking industry? A. I don't know. 10:13:30 MR. PAK: Objection. Calls for expert testimony.
14 15 16 17 18 19 20 21 22 23 24	A. That's correct. Q. What is the OSI standards body? 10:05:04 A. Open systems I don't remember the full expansion. Sorry. Q. Okay. So who was the standard-setting body for IS-IS? A. I believe that was falls under ISO which 10:05:20 is the child of OSI. Q. And how do you know that, Mr. Li? A. I've read the document. Q. When you say "the document," do you mean the 10:05:34	14 15 16 17 18 19 20 21 22 23 24	A. That is the common acronym used for that protocol. Q. In the networking industry? A. In the networking industry. Q. And how long has RIP been a commonly used acronym in the networking industry? A. I don't know. MR. PAK: Objection. Calls for expert testimony. BY MR. WONG: Q. Okay. But to your knowledge, it is a commonly used acronym in the networking industry today? 10:13:39
14 15 16 17 18 19 20 21 22 23 24	A. That's correct. Q. What is the OSI standards body? 10:05:04 A. Open systems I don't remember the full expansion. Sorry. Q. Okay. So who was the standard-setting body for IS-IS? A. I believe that was falls under ISO which 10:05:20 is the child of OSI. Q. And how do you know that, Mr. Li? A. I've read the document. Q. When you say "the document," do you mean	14 15 16 17 18 19 20 21 22 23 24	A. That is the common acronym used for that protocol. Q. In the networking industry? A. In the networking industry. Q. And how long has RIP been a commonly used acronym in the networking industry? A. I don't know. 10:13:30 MR. PAK: Objection. Calls for expert testimony. BY MR. WONG: Q. Okay. But to your knowledge, it is a commonly used acronym in the

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1 A. It is.	1 working for Cisco in 1991?
2 Q. Do you know when you first started using	2 A. Approximately three.
3 the acronym RIP?	3 Q. What was your familiarity with the command
4 A. 1991 when I came to Cisco.	4 line interface on Cisco's routers before you started
5 Q. And did you come up with the acronym RIP? 10:13:48	5 working at Cisco in 1991? 10:16:30
6 A. No, I did not.	6 A. So I used Cisco's CLI for those three years
7 Q. Where did you get that acronym from?	7 between '87 and 1991.
8 A. I heard it from coworkers first.	8 Q. What level of familiarity strike that.
9 Q. And you did not come with the acronym BGP;	9 Was OSPF a well-known acronym in the
10 correct? 10:14:07	10 networking industry? Actually, strike that. 10:17:02
11 A. Correct.	11 Is OSPF a well-known acronym in the
12 Q. Where did you first hear the acronym BGP?	12 networking industry?
13 A. From discussions on a Usenet mailing list.	13 A. Yes, it is very well-known.
14 Q. What is a Usenet mailing list?	14 Q. And when did you first hear of the acronym
15 A. Usenet was a system for exchanging 10:14:23	15 OSPF, Mr. Li? 10:17:12
16 messaging in a broadcast fashion, and there were	16 A. As part of my employment at Cisco.
17 groups within that where people would circulate	17 Q. Approximately when did you hear first
18 messages. And so there was a discussion of routing	18 hear of OSPF?
19 protocols, and I heard about it first through that.	19 A. About 1992.
20 Q. And what time period are you talking about 10:14:45	20 Q. Approximately how long has "OSPF" been a 10:17:23
21 here when you first heard the acronym BGP?	21 well-known term in the networking industry, to your
22 A. This would be somewhere between about 1985	22 knowledge?
23 to 1990.	23 MR. PAK: Objection. Calls for expert
Q. So that was before you started working at	24 testimony.
25 Cisco; correct? 10:15:01 Page 46	25 THE WITNESS: I suspect at least 1989. 10:17:32 Page 48
rage 46	rage 46
1 A. Correct.	1 BY MR. WONG: Q. Why do you say that,
2 Q. Is "IGRP" also a commonly used term in the	2 Mr. Li?
3 networking industry?	3 A. So there's work started on OSPF early on
4 A. It is.	4 prior to my joining Cisco and prior to my learning
5 Q. And how long, to your knowledge, has "IGRP" 10:15:17	5 about it, and I believe that was about '89. 10:17:44
6 been a commonly used term in the networking	6 Q. When you say there was work started on
7 industry?	7 OSPF, what are you referring to by that?
8 MR. PAK: Objection. Calls for expert	8 A. This is work in the IETF to specify the
9 testimony.	9 protocol.
10 THE WITNESS: I recall seeing it very early 10:15:24	10 Q. And how did you know that there was work 10:18:02
11 on. I first learned about it in 1987.	11 started on OSPF by the IETF around 1989?
12 BY MR. WONG: Q. And you did not come up	12 A. So there was a discussion list about it,
13 with the acronym IGRP; right?	13 and I looked at some the history of OSPF and looked
14 A. No, I did not.	14 at the RFC that subsequently came out. I knew that
15 Q. Do you recall how you first learned about 10:15:38	15 folks had been working on it for quite some time. 10:18:33
16 the acronym IGRP?	16 Q. Who was participating in the discussion
17 A. So I was asked to administer a Cisco router	17 list about OSPF at that 1989 time period?
18 in 1987 and was did Cisco training and learned	18 A. I
19 about IGRP through that training.	19 MR. PAK: Objection. Calls for
20 Q. And that was before you joined Cisco in 10:15:58	20 speculation. 10:18:48
21 1991; right?	21 THE WITNESS: So John Moy, Milo Medin,
22 A. That's correct. I was a customer before an	22 Vince Fuller, Cathy Wittbrodt. Don't remember the
23 employee.	23 rest.
24 Q. How many years of experience did you have	
	BY MR. WONG: Q. And how do you know those
25 working with Cisco routers before you started 10:16:15 Page 47	24 BY MR. WONG: Q. And how do you know those 25 individuals you just named were part of the 10:19:12 Page 49

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1	discussion of OSPF in 1989?	1 standard?	
2	A. I subsequently worked with them as part of	2 A. Not offhand.	
3	IETF and learned of their involvement with OSPF.	3 Q. Is IS-IS a well-known acronym in the	
4		4 networking industry?	
5	•	5 A. Largely, no. 10:22:41	
6	•	6 Q. How do you know the IS-IS acronym?	
7	5	7 A. I'm part of a small group who've made use	
8		8 of the protocol. 9 Q. Is IS-IS a well-known acronym amongst those	
	individuals work for?	9 Q. Is IS-IS a well-known acronym amongst those 10 who make use of the IS-IS protocol? 10:23:01	
10		11 A. Yes, it is.	
	worked for NASA. Cathy Wittbrodt was at Energy Sciences Network at as part of	12 Q. Why is it a smaller group that makes use of	
1	Lawrence Livermore Labs.	13 the IS-IS protocol?	
13		14 A. So IS-IS is part of the ISO protocol stack	
15	•	15 which ended up not having a significant market 10:23:15	5
i i	besides the ones you just mentioned participate in	16 share, and thus there's a very small user base.	
	OSPF standardization?	17 Only a very small portion of the I net IP	
18	MR. PAK: Objection. Calls for	18 networking industry ended up using IS-IS, and so the	
19	speculation. Calls for expert testimony.	19 number of people that use IS-IS for IP routing is	
20	THE WITNESS: So I'm certain that several 10:20:32	20 very, very small. 10:23:38	
21	others did. The best way to check would be to look	21 Q. How long has IS-IS been a well-known	
22	at the IETF attendance records.	22 acronym amongst those who make use of the IS-IS	
23	BY MR. WONG: Q. When you say you're	23 protocol, to your knowledge?	
24	certain that several others did, why are you so	24 A. At least 1991.	
25	certain? 10:20:43	25 Q. And when did when did you first hear of 10:23:50	
	Page 50	Pa	ge 52
1	A. The IETF typically has dozens of people	1 the IS-IS acronym?	
2	operating, working together on any given protocol.	2 A. 1991 when I joined Cisco.	
3	Q. And how do you how do you know that,	3 Q. Is "IP" a well-known industry term in the	
4	Mr. Li?	4 networking industry?	
5	A. So that's I started participating in the 10:20:57	5 A. Very well. 10:24:07	
6	IETF in 1991, and that's their standard way of	6 Q. In your view, what other acronyms are as	
7	working.	7 well-known as IP in the networking industry?	
8	Q. How many years have you been participating	8 MR. PAK: Objection. Calls for expert	
İ	in the IETF since 1991?	9 testimony.	.10
10	A. I participated quite consistently up and 10:21:15	10 THE WITNESS: TCP, TCP/IP, WWW. 10:24:	.19
1	through about from 1991 to about 1999, and then	BY MR. WONG: Q. How long has IP been a	
1	it's been sporadic since then. Q. When you say the IETF typically has dozens	12 well-known acronym in the networking industry? 13 A. At least since 1983.	
13	of people working together on any given protocol,	14 Q. And when did you first learn of the acronym	
	are those people from the same company or different 10:21:42	15 IP? 10:24:44	
	companies?	16 A. Approximately 1984 I took a class in	
17	MR. PAK: Objection. Calls for	17 computer networking and read the first read the	
1	speculation. Vague.	18 RFCs on IP.	
19	THE WITNESS: Typically the group	19 Q. Is BGP a let me start that again.	
	working groups that are working on a protocol draw 10:21:54	20 Is "BGP" a well-known term in the 10:25:25	
ŀ	people from all sorts of different companies and	21 networking industry?	
	organizations.	22 A. It is.	
23	BY MR. WONG: Q. Can you think of any	23 Q. How long has "BGP" been a well-known term	
1			
24	protocols from the IETF where different	24 in the networking industry?	
1	protocols from the IETF where different organizations did not participate in creating the 10:22:12 Page 51	25 MR. PAK: Objection. Calls for expert 10:25:34	ge 53

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		Τ.	WE THE THE THE PROPERTY OF THE
	testimony.		
2	•	1	2 relay functionality in Cisco IOS?
3] 3	
4		1	code, read the DHCP RFC, test the behavior of the
	industry since 1993? 10:25:47	1	Cisco DHCP relay and then repair the functionality 10:28:49
6	1	1	in the source code as necessary.
7	Q. Why do you say that you are an expert in BGP?	7	
9		9	employment; correct? A. Several times.
	Internet, 10:26:00	10	
11			you leave?
	throughout the Internet?	12	•
13	_	13	
1	enhancing BGP. I was responsible for doing a great		1996?
1	deal of bug fixing to BGP. And as part of that, I 10:26:17		
1	ended up reimplementing much of Cisco's BGP code and	16	
l l	replacing the vast majority of the code that they		time?
	had.	18	A. Juniper was a startup in the computer
19	Q. And when did you first hear of the acronym	1	networking space.
1	BGP? 10:26:43	20	Q. What was Juniper's main product at the 10:29:41
21	A. Again, I believe it was in the late '80s as	l	time?
22	part of the Usenet group.	22	A. They had no product initially, and their
23	Q. Is "DNS" a well-known term in the	23	first product was a router, the M40, and I believe
24	networking industry?	24	that came out in 1998.
25	A. It is. 10:27:07	25	Q. Did you work on the M40 Juniper router? 10:29:59
	Page 54		Page 56
1	Q. How long has "DNS" been a well-known term	1	A. I did.
2	in the networking industry, Mr. Li?	2	Q. Now, you said Juniper had no product
3	A. At least since late '80s.	3	initially.
4	Q. When did you first learn of the term "DNS"?	4	Did they have no product when you joined
5	A. I was a sys admin at USC at the time. 10:27:19		them in 1996? 10:30:16
6	Could have been anywhere from '83 on.	6	A. That's correct. We were a startup. We
7	Q. How do you know that "DNS" has been a		had 1 was Employee No. 5. We had an office, and
	well-known term in the networking industry since the		that was it.
	late 1980s?	9	Q. Who were Juniper's competitors?
10	A. So I would helped convert USC from using 10:27:40	10	A. At the time it was Cisco. I believe Pluris 10:30:30
	host text, which was previous system, to using DNS.		came along shortly thereafter, but I don't know
12	Q. Is "DHCP" a well-known term in the		exactly when. There was another company called
	networking industry?		NetStar. Wellfleet. Proteon had not quite gone
14	A. It is.	14	under. That's all I can remember. 10:31:03
15	Q. How long has "DHCP" been a well-known term 10:28:00	16	Q. Now, you said you were Employee No. 5;
	in the networking industry?		Q. Now, you said you were Employee No. 5; correct?
17	A. I don't know.	18	A. Correct.
18	Q. When did you first hear of the acronym DHCP?	19	Q. Where did the other first employees at
10 1	DITCI :		Juniper come from? 10:31:15
	Δ Probably 1991 10-28-08	~ 0	*
20	A. Probably 1991. 10:28:08 O. Why do you think you first heard of DHCP in	21	A. So the founder Pradeep Sindhu was coming
20 21	Q. Why do you think you first heard of DHCP in	21 22	A. So the founder Pradeep Sindhu was coming out of Xerox PARC and Sun. Biorn Liencres I believe
20 21 22	Q. Why do you think you first heard of DHCP in 1991?	22	out of Xerox PARC and Sun. Bjorn Liencres I believe
20 21 22 23	Q. Why do you think you first heard of DHCP in 1991? A. I helped maintain DHCP relay functionality	22 23	out of Xerox PARC and Sun. Bjorn Liencres I believe was Sun. Dennis Ferguson, I knew him through IETF,
20 21 22 23	Q. Why do you think you first heard of DHCP in 1991?	22 23 24	out of Xerox PARC and Sun. Bjorn Liencres I believe

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Г		Т	
1		1	acronym was designated by the IETF.
İ	2. that.	1	
3		1	designated by the IETF"?
4		4	, , , , , , , , , , , , , , , , , , , ,
5	Ç	1	8
	6 Mr. Li?	6	•
7		7	
	document in an attempt to document a routing	8	protocol as IPv6?
	protocol architecture a routing architecture for IPv6. 11:46:45	10	•
11	Q. What is IPv6?	11	
12		12	
i	Protocol. What a widely deployed right now today is	13	
ľ	known as IPv4. It has the problem that it does not	1	that discussion?
1	have enough address space and can only support about 11:46:59	15	· · · · · · · · · · · · · · · · · · ·
1	4 billion hosts.	16	
17			discussion?
1	approved by the IETF and we're currently	18	
Į.	transitioning to IPv6, slowly.	19	
20	Q. We're currently transitioning today, you 11:47:17		discussion? 11:49:48
	mean?	21	A. I believe so.
22	A. Yes. Twenty years and counting.	22	Q. Were there any other acronyms relating to
23	Q. And I'm sorry. What was the date on the	23	routing protocols that the IETF decided should be
24	document marked as Exhibit 138, Mr. Li?	1	used to refer to those protocols?
25	A. That appears to be March 1995. 11:47:33	25	A. Yes, many. 11:50:05
	Page 106		Page 108
1	Q. Was this document strike that.	1	Q. What protocols did the IETF decide that
2	When was the first version of the document	2	everyone in the network industry should use in
3	marked as 138 completed, to your knowledge?	3	addition to IPv6?
4	A. I would have to check my notes to be	4	MR. PAK: Objection. Calls for expert
5	precise but somewhere approximately 1994. 11:48:04	5	testimony. 11:50:18
6	Q. Turning back to Exhibit 139, Mr. Li, what	6	THE WITNESS: So OSPF, BGP, RSVP, LDP,
7	is the date on this document?	7	HTTP.
8	A. December 1995.	8	BY MR. WONG: Q. Was "IS-IS" a a
9	Q. Is that the publication date for this RFC?	9	term strike that.
10	A. Yes, it is. 11:48:19	10	Did the IETF have any role in the decision 11:50:50
11	Q. And was the document that is shown	ŀ	for IS-IS to be used by the networking industry?
	Exhibit 139, was that completed before the	12	A. Somewhat. Again, IS-IS was originally
13	publication date shown on Exhibit 139?		standardized outside of the IETF. The IETF had the
14	A. Yes, it was.		responsibility of managing the usage of IS-IS for
15	Q. Do you know approximately when? 11:48:34		Internet Protocol routing. 11:51:14
16	A. Somewhere between '93 and '94.	16	Q. And to your knowledge, Mr. Li, based on
17	Q. Did you come up with the term "IPv6,"		your experience working in the industry, did various
	Mr. Li?		vendors use those acronyms that you just listed out
19	A. No, I did not.		for me?
20	Q. Do you know who? 11:48:42	20	A. Yes, frequently. 11:51:38
21	A. No. Can't be specific.	21	Q. To what extent was there any belief that
22	Q. Is IPv6 a well-known acronym in the		these acronyms for routing protocols were
	networking industry?		proprietary to any single vendor?
24	A. Yes, it is. It is a well-known acronym for	24	MR. PAK: Objection. Calls for
د2	Internet Protocol version 6, and this this 11:48:53 Page 107	23	speculation. 11:51:58 Page 109
	-0		

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1 by the count reporter and is attached heroto.) 2 proprietary. 3 BY MR. WONG: Q. And on what facts do you 4 base that opinion, Mr. Li? 5 A. So fine acronyms were never published with a 11:52:06 6 tradornark or copyright notice attached to them. 7 Q. Did you ever believe personally that the 8 time of OSPR, EQP, IP or any of the other acronyms 9 that we've been discussing today were peoprietary to 0 any vendor. 1 In A. No. 12 Q. In your experience at multiple companies in 13 the networking industry, did anybody due to fast you 14 worked with express the belief to you that any of 15 these acronyms were proprietary to you that any of 15 these acronyms were proprietary to any vendor? 1 In So So in the 25 years that you have been 18 working in the networking industry, did underly you have not 19 heard anybody express the belief that any of these 10 acronyms were proprietary to a single vendor? 11:52:48 16 A. No. 17 Q. So in the 25 years that you have been 18 working in the networking industry, you have not 19 heard anybody express the belief that any of these 20 corroyms were proprietary to a single vendor? 21 List and anybody express the belief that any of these 22 Q. Turning back to Eshibit 139, Mr. Li, first 23 Q. Did you come up with the word 'domain' is used. 24 De you see that? 25 Do you see that? 26 Q. Did you come up with the word 'domain'? 27 A. No. I did not. 28 Q. Did you come up with the word 'domain'? 29 A. No. I did not. 30 Q. Do you know who did? 40 Q. Do you know who did? 41 A. The first that the means up with the term 42 during the work for IDR?, and that flowed—and it 43 Do you know who did? 44 December 1995, was 'domain' is used. 45 Do you know who did? 46 Q. Do you know who did? 47 A. The first that command? 48 A. In believe that he came up with the word 'domain'? 49 C. Do you, Roy the lime of this RPC. 40 Do you know who did? 41 A. The first that command? 41 A. A. The first that command? 42 A. A. The first that command? 43 A. A. A. In believe that the came up with the word 'domain'? 44 A. A. D.		
3 BY MR, WONG: Q. And on what facts do you 4 base that opinion, Mr. Li? 5 A. So the acromyms were never published with a 11:52:06 6 undermark or copyright notice attached to them. 7 Q. Did you were believe promainly that the 8 use of OSPF, BGP, IP or any of the other acronyms 9 that we've been discussing today were proprietary to 10 any vendor? 11:52:32 11 A. No. 12 Q. In your experience att multiple companies in 13 the networking industry, did anybody elso that you 14 worked with express the belief to you that any of 15 these acronyms were proprietary to a single vendor? 11:52:48 16 A. No. 17 Q. So in the 25 years that you have been 18 working in the networking industry, you have not 19 heard anybody express the belief that any of these 20 acronyms were proprietary to an single vendor? 11:53:08 21 A. Thar's correct. 22 page further down, second paragraph from the bottom, 23 page further down, second paragraph from the bottom, 24 the world "domain" is used. 25 Do you see that? 11:53:23 26 Q. Do you know who dis? 3 A. No, I did not. 4 Q. Do you know who dis? 4 A. I believe that was Dr. Rechter came up with the term 9 during the work for IDR? and that flowed – and it 10 is semantically equivalent to Automosus System, and 11:53:45 16 Q. And how do you – how do you know that, 14 Mr. Li? 15 A. Direct work with botts of flose 11:53:58 16 specifications. 17 Q. Oay, By the time of this RPC, 18 A. Bug and – I'm sorry, 29 MR. PARK: Objection. Vague. 11:54:10 21 THE WITNESS: No, it was not well-known industry 10 term? 22 MR. WONG: Lef's mark (this one as 140, 24 please. 25 (Exhibit 140 was marked for identification 11:54:45 Page 111 Page 113	1 THE WITNESS: So the acronyms were never	1 by the court reporter and is attached hereto.)
4 base that opinion, Mr. Li? 5 A. So the acronyms were never published with a 11:52.05 to fundemate or copyright notice attached to them. 7 Q. Did you ever believe personally that the 8 use of OSPF, BGP, IP or any of the other acronyms 9 that we've been discussing today were proprietary to 10 any vendor? 11:52:32 11 A. No. 12 Q. In your experience at multiple companies in 13 the networking industry, did anybody else that you 14 the worded when separate the two proprietary to 13 the networking industry, did anybody else that you 14 the worded when keyers the belief to you that any of 15 these acronyms were proprietary to any vendor? 11:52:48 14 worded when keyers the belief that you that any of 15 these acronyms were proprietary to any vendor? 11:52:48 16 A. No. 17 Q. So in the 25 years that you have been 18 working in the networking industry, you have not 190 heard anybody experses the belief that any of these 20 acronyms were proprietary to a single vendor? 11:53:08 21 A. Thar's correct. 22 Day ou see that? 11:53:23 Page fifther down, second paragraph from the bottom, 24 the word 'domain' 15 used. 25 Do you see that? 11:53:23 Page fifther down, second paragraph from the bottom, 24 the word 'domain' 15 used. 25 Do you see that? 11:53:23 Page 110 1 A. No. 1 did not. 4 D. Do you know who did? 1 A. No, 1 did not. 4 D. Do you know who did? 1 S. A. Dielieve that was Dr. Rechter r. 11:53:31 6 Q. Do you know who did? 1 to the word 'domain'? 2 to the man of domain'? 3 A. No, 1 did not. 4 D. Do you know who did? 4 D. Do you know who did? 4 D. Do you know who fir. Rechter came up with the term 9 during the word for IDRP, and that flowed - and it 10 is senaratically equivalent to Autonomous System, and 11:53:58 15 professional that the BGP specifications. 1 DRP into both this 12 document and the BGP specifications. 1 DRP into both this 12 document and the BGP specifications. 1 DRP into both this 12 document and the BGP specifications. 1 DRP into both this 12 document and the BGP specification. 1 DRP into both this 12 docu	2 proprietary.	2 BY MR. WONG: Q. The court reporter has
5 A. So the scronyms were never published with a 11:52:06 6 tackernark or copyright notice attached to them. 7 Q. Did you ever believe personally that the 8 use of OSPF, BGP, IP or any of the other accroyms 9 that we've been discussing today were proprietary to 10 any vendor? 11:52:32 11 A. No. 12 Q. In your experience at multiple companies in 13 the networking industry, Judi anybody chee that you 14 worked with express the belief to you that any of 15 these accroyms were proprietary to any vendor? 17 Q. So in the 25 years that you have been 18 working in the networking industry, you have not 19 heard anybody expess the belief that any of these 20 acronyms were proprietary to any vendor? 11 A. Yes. 21 Q. Did you come up with the word 'domain'? 22 Q. Turning back to Estibit 139, Mr. Li, first 23 page further down, second paragraph from the bottom, 24 the word 'domain' is used. 25 Do you see that? 26 Q. Did you come up with the word 'domain'? 27 Q. So in the 25 years that you have been 28 to you see that? 29 Q. Did you come up with the word 'domain'? 30 A. No, 1 did not. 4 Q. Do you know who did? 5 A. I believe that was Dr. Rechter. 4 Q. Do you know who did? 5 A. I believe that he came up with that term 5 during the work for IDEP, and that flowed - and it 10 g. And how do you how do you know that, 14 Mr. Li? 14 Mr. Li? 15 A. Direct work with both of those 11:53:58 16 pecifications. 17 Q. Okay, By the time of this RFC, 18 to RMA. I believe that the came up with that flowed - and it 10 is semantically equivalent to Autonomous System, and 11:53:58 16 pecifications. 17 Q. Okay, By the time of this RFC, 18 to RMA. I believe that the came up with that flowed - and it 10 is semantically equivalent to Autonomous System, and 11:53:58 16 pecifications. 17 Q. Okay, By the time of this RFC, 18 to you would be Mr. Haskin, to your recollection, 19 Company that the content of the concepts in 14 the down of the concepts in 14 the down of the concepts in 14 the down of the concepts in 14 the down of the concepts in 14 the indi	3 BY MR. WONG: Q. And on what facts do you	3 marked as Exhibit 140 a document bearing Control
6 A. I believe so. 7 Q. What is the document marked as Exhibit 140? 8 A. It appears to be a copy of RPC 1966, BGP 9 that we've been discussing today were proprietary to 10 any vendor? 11:52:32 11 A. No. 12 Q. In your experience at multiple companies in 13 the networking industry, did anybody else that you 14 worked with express the belief to you that any of 15 finese acronyms were proprietary to any vendor? 11:52:48 16 A. No. 17 Q. So in the 25 years that you have been 18 working in the networking industry, you have not 19 heard anybody express the belief that any of finese acronyms were proprietary to a single vendor? 11:53:08 12 Q. Turning back to Exhibit 139, Mr. Li, first 23 page further down, second paragraph from the bottom, 24 the word domain? 23 page further down, second paragraph from the bottom, 24 the word domain? 3 A. No, I did not. 4 Q. Do you snow whe did? 5 A. I believe so. 7 Q. What is the document marked as Exhibit 140? 8 A. It appears to be a copy of RPC 1966, BGP 9 Route Reflection. 10 Q. Did you – what was your involvement, if 11:55:45 11 any, in the creation of the document marked as 12 Exhibit 140? 13 A. So I helped discuss many of the concepts in 14 this document. As part of the development and 15 deployment of BCP, we found that we had numerous 11:56:02 15 Sephibit 140? 16 A. No. 17 Q. So in the 25 years that you have been 18 working in the networking industry, you have not 19 heard anybody express the belief that any of these 20 acronyms were proprietary to a single vendor? 11:53:08 21 A. Thaffes correct. 22 Q. Turning back to Exhibit 139, Mr. Li, first 23 page further down, second paragraph from the bottom, 24 the word domain? 3 A. No, I did not. 4 D. Yes 2 Q. Did you come up with the word "domain"? 3 A. No, I did not. 4 D. Do you know when Dr. Rechter. 5 A. Delieve that we came up with a particular AS had to be directly 7 intercommerced. That led to some significant 8 Some or other to another through a third router. This 10 is semantically equivalent to Autonomous System, and 11:53:45	4 base that opinion, Mr. Li?	4 Nos. ARISTANDCA00025927 to -25933.
7 Q. What is the document marked as Exhibit 140? 8 use of OSPF, BCP, IP or any of the other acronyms 10 any vendor? 11:52:32 11 A. No. 12 Q. In your experience at multiple companies in 13 the networking industry, did anybody else that you 14 worked with express the belief to you that any of 15 finese acronyms were proprietary to a single vendor? 16 A. No. 17 Q. So in the 25 years that you have been 18 working in the networking industry, you have not 19 heard anybody express the belief that any of these 20 acronyms were proprietary to any vendor? 11:52:48 16 A. That's correct. 22 Q. Turning back to Exhibit 139, Mr. Li, first 23 page further down, second paragraph from the bottom, 24 the work' domain' is used. 25 Do you see that? 11:53:23 1 A. Yes. 2 Q. Did you come up with the word "domain"? 3 A. No, I did not. 4 Q. Do you know when Dr. Rechter 4 Q. Do you know when Dr. Rechter 5 A. I believe that he came up with that form 9 during the work for IDEP, and that flowed—and it 10 is seanastically equivalent to Autonomous System, and 11:53:58 1 A. I believe that he came up with that flowed—and it 10 is document and the BGP specification. 13 Q. And how do you—how do you sknow that, 14 Mr. Li? 15 A. Direct work with both of flose 11:53:58 16 specifications. 21 MR. PAK: Objection, Vague. 22 MR. PAK: Objection, Vague. 23 MR. PAK: Objection, Vague. 24 please. 25 (Exhibit 140 was marked for identification 11:54:45 Page 111 25 Page 111 26 (Exhibit 140 was marked for identification 11:54:45 Page 111 27 (S. What is the document marked as Exhibit 140? 28 A. I I tappeans to be a copy of RPC 1966, BGP 11:55:45 11 at appeans to be a copy of RPC 1966, BGP 11:55:45 11 at a press she belief the trany of 11:55:45 11 at a press she belief the trany of 11:55:45 11 at a press she belief to go un that any of 11:55:45 12 Exhibit 140? 13 A. So I believe the was on the Well-flown and 2 the call of the concepts in 14: this document any of the concepts in 14: this document any of the concepts in 14: this document any of the concepts in 14:	5 A. So the acronyms were never published with a 11:52:06	5 Mr. Li, have you seen this document before? 11:55:28
8 A. It appears to be a copy of RFC 1966, BGP 9 hat we've been discussing today were proprietary to 10 any vendor? 11:52:32 11 A. No. 12 Q. In your experience at multiple companies in 13 the networking industry, did anybody else that you 14 worked with express the belief to you that any of 15 these acronyms were proprietary to any vendor? 16 A. No. 17 Q. So in the 25 years that you have been 18 working in the networking industry, you have not 19 heard anybody express the belief that any of these 20 acronyms were proprietary to a single vendor? 11:53:08 12 A. That scorrect. 13 Q. Turning back to Eshibit 139, Mr. Li, first 14 his document. As part of the development and 15 deployment of BGP, we found that we had numerous 11:56:02 16 sealability issues that we needed to overcome. 17 There were several approaches proposed. I helped 18 work on the Route Reflection proposal. 19 Some of the original work was proposed by 20 Dimitry Haskin of Bay Networks. And as part of the 11:56:20 21 Mr. Bates and Mr. Chandra eventually wrote 24 up the actual document as you see it here. 25 Q. Did you come up with the word "domain"? 3 A. No, I did not. 4 Q. Do you know whor did? 5 A. I believe that was Dr. Rechter. 11:53:33 2 A. No, I did not. 4 Q. Do you know whor Dr. Rechter. 5 A. I believe that the came up with that tenns 9 during the work for IDRP, and that flowed—and it 10 is semantically equivalent to Autonomous System, and 11:53:49 11 it flowed from his work in DRP into both this 10 document and the BGP specification. 13 Q. And how do you —how do you know what, 14 Mr. Li2? 15 A. Direct work with both of those 11:53:58 16 specifications. 17 Q. Oxay. By the time of this RPC, 18 December 1995, was "domain" a well-known and 22 still is not very well-known. 23 MR. RONOI: Lefs mark this one as 140, 24 please. 24 (g. And why do you think that Mr. Haskin came 24 up with the phrase "Route Reflection"? 25 A. So I believe he was the first one at IDR 11:57:52 26 A. So I believe he was the first one at IDR 11:57:52 27 A. So I believe he wa	6 trademark or copyright notice attached to them.	6 A. I believe so.
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Case 5:14-cv-05344-BLF Document 512-8 Filed 09/06/16 Page 33 of 122 CONFIDENTIAL INFORMATION UNDER THE PROTECTIVE ORDER

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Case 5:14-cv-05344-BLF Document 512-8 Filed 09/06/16 Page 34 of 122 CONFIDENTIAL INFORMATION UNDER THE PROTECTIVE ORDER

1	I, the undersigned, a Certified Shorthand	
	Reporter of the State of California, do hereby	
3	certify:	
4		
	before me at the time and place herein set forth;	
	that any witnesses in the foregoing proceedings,	
	prior to testifying, were administered an oath; that	
	a record of the proceedings was made by me using	
	machine shorthand which was thereafter transcribed	
	under my direction; that the foregoing transcript is	
12	a true record of the testimony given. Further, that if the foregoing pertains to	
	the original transcript of a deposition in a Federal	
	Case, before completion of the proceedings, review	
	of the transcript [X] was [] was not requested.	
16	I further certify I am neither financially	
	interested in the action nor a relative or employee	
	of any attorney or any party to this action.	
19	IN WITNESS WHEREOF, I have this date	
20	subscribed my name.	
21	Dated: February 3, 2016	
22	-	
23		
	(Man IN -	
24	Susan F. Magee	
25	CSR No. 11661, RPR, CCRR, CLR	
	Page 258	

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	UNITED STATES DISTRICT COURT	1	APPEARANCES:
	NORTHERN DISTRICT OF CALIFORNIA	2	KIT EKKKINO BB.
	SAN JOSE DIVISION	3	
		4	ON BEHALF OF THE PLAINTIFF CISCO SYSTEMS, INC., and
	CISCO SYSTEMS, INC.,	5	the WITNESS:
	Plaintiff,	6	QUINN EMANUEL URQUHART & SULLIVAN, LLP
	vs. No. 5:14-cv-05344-BLF(PSG)	7	By: SEAN S. PAK, Esq.
	ARISTA NETWORKS, INC.,	8	50 California Street, 22nd Floor
	Defendant.	9	San Francisco, California 94111
		10	Phone: 415.875.6600
		11	seanpak@quinnemanuel.com:
	CONFIDENTIAL BUBCHANT TO THE BROTECTIVE ORDER	12	
	CONFIDENTIAL PURSUANT TO THE PROTECTIVE ORDER	13	
	VIDEOTAPED DEPOSITION OF TONG LIU	14	ON BEHALF OF THE DEFENDANT ARISTA NETWORKS, INC.:
	FRIDAY, JANUARY 15, 2016	15	KEKER & VAN NEST LLP
	PALO ALTO, CALIFORNIA	16	By: RYAN WONG, Esq.
		17	633 Battery Street
		18	San Francisco, California 94111-1809
		19	Phone: 415.773.6682
		20	rwong@kvn.com
	Reported by:	21	
	ANDREA M. IGNACIO, CSR, RPR, CRR, CCRR, CLR	22	ALSO PRESENT: Kevin Foor, Videographer
	CSR LICENSE NO. 9830	23	
	JOB NO. 2211574	24	0Oo
	Pages 1 - 215	25	
	Page 2	Symmetry and server and server server server server server server server server server server server server se	Page 4
1	UNITED STATES DISTRICT COURT	1	INDEX
2	NORTHERN DISTRICT OF CALIFORNIA	2	
3	SAN JOSE DIVISION	3	WITNESS: Tong Liu
4		4	3
5	CISCO SYSTEMS, INC.,	5	EXAMINATION PAGE
6	Plaintiff,	6	By Mr. Wong 7, 207
7	vs. No. 5:14-cv-05344-BLF(PSG)	7	By Mr. Pak 185
8	ARISTA NETWORKS, INC.,	8	
9	Defendant.	9	EXHIBITS
10		10	EXHIBIT PAGE
11		11	Exhibit 92 Amended Exhibit F; 45 pgs. 67
12		12	Exhibit 93 IEEE Standard for a Precision 84
13		13	Clock Synchronization Protocol
14	Videotaped Deposition of Tong Liu, taken on	14	for Networked Measurement and
15	Friday, January 15, 2016, pursuant to notice, on	15	Control Systems, Bates
16	behalf of the Defendants, at 610 Page Mill Road,	16	ARISTANDCA00031733 - '32021;
17	Palo Alto, California before me, ANDREA M. IGNACIO,	17	289 pgs.
18	CSR, RPR, CRR, CCRR, CLR ~ CSR License No. 9830	18	Exhibit 94 IEEE1588 Precision Tine Protocol 100
19		19 20	Platform-Independent Software
20		21	Functional Specification, Bates CSI-CLI-00610555 - '81; 27 pgs.
21		22	CSI-CLI-00610555 - '81; 27 pgs. Exhibit 95 6-25-08 E-mail, Subject: Seeking 122
22		23	permission for adding PTP CLI
23		24	comments; Bates CSI-CLI-00846643;
24 25		25	1 pg.
4 J		e U	1 P5·

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	Page 5		Page 7
1	EXHIBITS (Continued.)	1	
2	EXIIIBITS (Continued.)	2	way. If there are any objections to proceeding,
3	EXHIBIT PAGE	3	please state them at the time of your appearance.
4	Exhibit 96 6-25-08 E-mail, Subject: Seeking 124	4	And if you would please state your
5	permission for adding PTP CLI	5	appearances.
6	commands, Bates CSI-CLI-00608739	6	MR. WONG: Ryan Wong from Keker & Van Nest
7	- '40; 2 pgs.	7	for defendant Arista Networks.
8	Exhibit 97 6-26-08 E-mail, Subject: Seeking 128	8	MR. PAK: Sean Pak of Quinn Emanuel,
9	permission for adding PTP CLI	9	representing Cisco and the witness.
10	commands, Bates CSI-CLI-00846656	10	THE VIDEOGRAPHER: Thank you.
11	- '57; 2 pgs.	11	If the court reporter would please swear the
12	Exhibit 98 Cisco Nexus 7000 Series NX-OS 157	12	witness, we can begin.
13	System Management Command	13	witness, we can begin.
14	Reference, Bates CSI-CLI-00194055	14	TONG LIU,
15	- '9480; 626 pgs.	15	having been sworn as a witness
16	- 9480, 626 pgs.	16	by the Certified Shorthand Reporter,
17	 0Oo	17	testified as follows:
18	000	18	testified as follows:
19	PREVIOUSLY MARKED EXHIBITS	19	EVANINATION
20	FREVIOUSET WARKED EARIBITS	20	EXAMINATION BY MR. WONG:
21	Exhibit 52 CLI Design and Parriam Cuids Deter	21	
22	Exhibit 53 CLI Design and Review Guide, Bates CSI-ANI-00073381 - '.000014; 15 pgs.	22	Q Good morning, Ms. Liu.
23	C31-A141-000/3381000014; 13 pgs.	23	A Good morning,
24		24	Q Please state your full name for the record.A Tong Liu.
25		25	5
23		23	Q Do you go by any other names, Ms. Liu?
as communications care new de-care	Page 6		Page 8
1	PALO ALTO, CALIFORNIA	1	A At work, I go with Toni.
2	FRIDAY, JANUARY 15, 2016	2	Q Could you spell Toni for me, please.
3	9:32 A.M.	3	A T-O-N-I.
4		4	Q Okay. Have you gone by Toni Liu for for
5		5	what period of time have you gone by Toni Liu?
6		6	A That name is only used at work. It's not an
7	THE VIDEOGRAPHER: Good morning. We are on	7	officially alternative name.
8	the record at 9:32 on January 15th of the year 2016.		
9	This is the video deposition of Tong Liu.		
10	My name is Kevin Foor. I'm here with court		
11	reporter Andrea Ignacio. And we are here from		
12	Veritext Legal Solutions at the request of Keker &		
13	Van Nest.		
14	This deposition is being held at Wilson		
15	Sonsini Goodrich & Rosati in Palo Alto.		
16	The caption of the case is Cisco Systems,		
17	Inc., v. Arista Networks. That is case 514-CV-05344		
18	ELF BSG.		
19	Please note that audio and video recording		
20	will take place unless all parties agree to go off the	20	Q Thank you.
21	record. Microphones are sensitive and may pick up	21	Who is your current employer, Ms. Liu?
22	whispers, private conversations, and cell	22	A Aruba Networks.
23	interference,	23	Q Do you have a work address for Aruba
24	I'm not related to any party in this action,	24	Networks?
25	nor am I interested financially in the outcome in any	25	A 1322 Crossman Avenue, Sunnyvale.

		1	
	Page 93		Page 95
1	MR. WONG: You testified earlier that PTP was	1	Ethernet device, and you worked on implementing that?
2	one of the protocols identified to be interoperative.	2	A Right.
3	Q Were there were you aware of any other	3	Q Okay. And you don't know the reasons behind
4	protocols that were identified to be interoperative?	4	the decision to add PTP functionality well,
5	A I'm not aware of that.	5	actually, strike that.
6	Q Okay. But you were aware that PTP was	6	So did you see the IEEE PTP standard before
7	identified?	7	you began adding PTP functionality to the Cisco
8	A Right.	8	industrial Ethernet device?
9	Q And do you know which other vendors supported	9	A When you say "before," it's before I started
10	PTP, based upon your team's investigation, before	10	writing code?
11	adding PTP to the industrial Ethernet products?	11	Q Yes.
12	A Siemens is one vendor.	12	A I yes, I read the spec
13	Q Okay. So Siemens supported PTP in its	13	Q Okay,
14	devices before PTP functionality was added to the	14	A for understanding to understand how it
15	Cisco industrial Ethernet devices; correct?	15 16	works.
16	MR. PAK: Objection; calls for speculation.	1	Q I see.
17 18	THE WITNESS: I don't know the I don't recall the exact details, but I do remember Siemens	17 18	So you read the and by "the spec," you mean the IEEE PTP spec?
19	·	19	A Yes.
20	was mentioned in our previous conversations. I mean, the was in the team.	20	Q During the break, the court reporter marked
21	MR. WONG: Oh.	21	as Exhibit No. 93 the document right there to your
22	Q Siemens was	22	right.
23	A I	23	MR. WONG: And counsel, here's a copy for you
24	Q Sorry. Go ahead.	24	as well.
25	A Yes, as one important vendor for industrial	25	MR. PAK: Thanks.
20	7. 105, as one important vendor for madatrial		THE PARTY PROMISE.
	Page 94		Page 96
1	devices.	1	MR. WONG: The document bears control numbers
2	Q And I think you answered this earlier, but	2	AristaNDCA00031733 to '32021,
3	your team did not look at the specifics of how Siemens	3	Q Ms. Liu, you can take your time to look at
4	implemented PTP when you started adding PTP commands	4	the document, but the question that I have for you is:
5	to Cisco's industrial Ethernet devices; correct?	5	Do you recognize this document marked as Exhibit 93?
6	A We didn't look at any other vendor's device	6	A Yes, I I think this is the one we used, as
7	at the time.	7	well as the standard.
8	Q Okay. Have you seen the IEEE PTP standard	8	Q Okay. Can you read the title of the IEEE
9	before?	9	specification marked as Exhibit 93.
10	A "Before" meaning before today or before	10	A "IEEE standard for the precision clock
11	Q Yes, before today.	11	synchronization protocol for network measurement and
12	A Before today, yes.	12	control systems."
13	Q When was the first time that you saw the IEEE	13	Q Okay. And the the I guess the number
14	PTP standard?	14	for the standard on the bottom right is IEEE
15	A That's when I was working on this industrial	15	standard 1588-2008.
16	Ethernet switch development around 2008, I think.	16	Do you see that?
17	Q Was it your choice to add I'm sorry.	17	A Yes, uh-huh.
18	Strike that.	18	Q And this is the PTP IEEE standard that we
19	Was it your suggestion to add PTP	19	have been talking about in this deposition; correct?
20	functionality to the Cisco industrial Ethernet device?	20 21	A Yes.
21	A It was some decision made, and I was the one	22	Q Okay. So so the exhibit marked as 93 is the standard that you reviewed before you began coding
22 23	implementing it.	23	the PTP functionality for the Cisco industrial
23 24	Q I see.	24	Ethernet device; correct?
	So somebody else at Cisco made the decision	25	A Yes.
25			
25	to add PTP functionality to the Cisco industrial	20	7. 105,

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	Page 97		Page 99
1	Q Okay. And did you read the entire standard	1	
2	before you began working on the PTP functionality?	2	message.
3	A Yeah, I believe I read the the entire	1	Q And those are specified in the IEEE PTP
	·	3	standard; right?
4	or the majority part of it.	4	A Yes.
5	Q That's that's impressive.	5	Q And you followed those standards when
6	How the standard is is several hundred	6	implementing the PTP functionality in Cisco's
7	pages long.	7	industrial Ethernet products; right?
8	But you read the whole thing you remember	8	MR. PAK: Objection; vague.
9	reading the whole thing?	9	THE WITNESS: For the messages, yes.
10	A Yes.	10	MR. WONG: Q. And for the field definitions
11	Q Did you consult with the standard marked as	11	as well?
12	Exhibit 93 while you were coding the PTP functionality	12	A The field definition if you mean the
13	for Cisco's industrial Ethernet devices?	13	how wide the field is, which field needs to follow
14	A Yes. All of the messages format, the field	14	which one, yes. But particularly on the name of the
15	definitions behaviors, are documented here.	15	field, that may not necessarily be the same as the
16	Q Okay. So so every PTP functionality	16	spec.
17	every aspect of PTP functionality that you implemented	17	Q Okay. Did you have any role in developing
18	in Cisco's industrial Ethernet devices are based on	18	the PTP standard marked as Exhibit 93?
19	the IEEE standard marked as Exhibit 93?	19	A You mean contributing to the standard itself?
20	MR. PAK: Objection; mischaracterizes the	20	Q Yes.
21	witness' testimony.	21	A No.
22	MR. WONG: Q. Correct?	22	Q Did you contribute to the standard that
23	MR. PAK: Assumes facts not in evidence.	23	preceded the standard marked as Exhibit 93?
24	THE WITNESS: There are multiple parts of it	24	And I believe you called that PTP version 1.
25	for the implementation part. There is the protocol	25	A No.
20	for the implementation part. There is the protocol	2.5	71 110.
	Page 98		Page 100
1	part, which are the messages, the state machine, the	1	Q Did you have any role in drafting the
2	field definitions. Those we base off the the spec.	2	document that is marked as Exhibit 93?
3	There are the way we calculate the clock difference.	3	A No.
4	Those are not documented here. Those are what we	4	Q Do you know I think I know the answer
5	developed. And there's also the CLI command which we	5	but do you know if Mr. Bilstead had any role in
6	came up with separately.	6	developing the standard marked as Exhibit 93?
7	MR. WONG: Q. When you say "messages," what	7	A I don't know anything about that part.
8	do you mean by messages?	8	Q Okay. And you don't know anything about
9	A So, the PTP protocol has if I recall, has	9	whether Mr. Watve had contributed to the standard
10	multiple set is a handshaking message. So the	10	marked as Exhibit 93?
11	format of the message, which one follows what, which	11	A I don't know that part, either.
12	field is contained in which message, those are defined	12	Q Okay. Excuse me.
13	in the spec.	13	MR. WONG: Can we mark this one as 94.
14	Q Okay. And you followed those definitions	14	(Document marked Exhibit 94
T-4	when you implemented the PTP functionality in Cisco's	15	for identification.)
1.5	when you implemented the LTL functionality in Cisco's		MR. WONG: Okay. The court reporter has
15 16	industrial Ethernet devices right?		IVILL WOING, OKAY, THE COURT TEDOTTER HAS
16	industrial Ethernet devices; right?	16 17	
16 17	A Yes, the format of the messages.	17	marked Exhibit 94, the document with control
16 17 18	A Yes, the format of the messages.Q Okay. You also mentioned field definitions.	17 18	marked Exhibit 94, the document with control Nos. CSI-CLI-00610555 to '610581.
16 17 18 19	A Yes, the format of the messages.Q Okay. You also mentioned field definitions.What do you mean by field definitions?	17 18 19	marked Exhibit 94, the document with control Nos. CSI-CLI-00610555 to '610581. Q Ms. Liu, take your time in looking at this
16 17 18 19 20	A Yes, the format of the messages.Q Okay. You also mentioned field definitions.What do you mean by field definitions?A Those are inside of the message itself.	17 18 19 20	marked Exhibit 94, the document with control Nos. CSI-CLI-00610555 to '610581. Q Ms. Liu, take your time in looking at this document, but my first question for you is whether you
16 17 18 19 20 21	 A Yes, the format of the messages. Q Okay. You also mentioned field definitions. What do you mean by field definitions? A Those are inside of the message itself. Q Okay. What are fields? 	17 18 19 20 21	marked Exhibit 94, the document with control Nos. CSI-CLI-00610555 to '610581. Q Ms. Liu, take your time in looking at this document, but my first question for you is whether you recognize this document?
16 17 18 19 20 21	 A Yes, the format of the messages. Q Okay. You also mentioned field definitions. What do you mean by field definitions? A Those are inside of the message itself. Q Okay. What are fields? A Like, header, checksum. There are time 	17 18 19 20 21 22	marked Exhibit 94, the document with control Nos. CSI-CLI-00610555 to '610581. Q Ms. Liu, take your time in looking at this document, but my first question for you is whether you recognize this document? A I don't recognize this document.
16 17 18 19 20 21 22	 A Yes, the format of the messages. Q Okay. You also mentioned field definitions. What do you mean by field definitions? A Those are inside of the message itself. Q Okay. What are fields? A Like, header, checksum. There are time stamps inside of the message, and how big how wide 	17 18 19 20 21 22 23	marked Exhibit 94, the document with control Nos. CSI-CLI-00610555 to '610581. Q Ms. Liu, take your time in looking at this document, but my first question for you is whether you recognize this document? A I don't recognize this document. Q Okay. Have you seen any version of this
16 17 18 19 20 21	 A Yes, the format of the messages. Q Okay. You also mentioned field definitions. What do you mean by field definitions? A Those are inside of the message itself. Q Okay. What are fields? A Like, header, checksum. There are time 	17 18 19 20 21 22	marked Exhibit 94, the document with control Nos. CSI-CLI-00610555 to '610581. Q Ms. Liu, take your time in looking at this document, but my first question for you is whether you recognize this document? A I don't recognize this document.

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	Page 105		Page 107
1	MR. WONG: Q that PTP meant precision	1	lists the PTP which lists PTP as an acronym;
2	time protocol?	2	correct?
3	MR. PAK: Same objections.	3	MR. PAK: Objection; vague.
4	THE WITNESS: I don't think it's well known	4	THE WITNESS: I would say the meanings are
5	in the entire networking industry.	5	the same, that they mean precision time protocol.
6	MR. WONG: Okay.	6	MR. WONG: Q. Well, the the words are the
7	Q Was there a subset of the networking industry	7	same, too; correct?
8	where PTP was known to refer to the PTP in Exhibit 93?	8	PTP in the command is the same three letters
9	MR. PAK: Objection; vague; calls for	9	that appear on page 8 of Exhibit 93; correct?
10	speculation; assumes facts not in evidence.	10	A It's the same acronym.
11	THE WITNESS: It's not as normal a term as IP	11	Q And they're referring to the same protocol;
12	or MAC. The the term is still I think even for	12	correct?
13	people who are working on the Catalyst switches, it's	13	A Yes.
14	not a very well-known term.	14	Q Now, if you'll turn to page 4 of Exhibit 93.
15	MR. WONG: Okay.	15	A (Witness complies.) Okay.
16	Q But certainly, the IEEE standard marked as	16	Q You can take off the well
17	Exhibit 93 defines the PTP acronym; correct?	17	A This is
18	A Yes.	18	Q maybe you want to keep that together,
		19	actually.
19	Q And uses the PTP acronym A Yes.	20	
20		21	A Right,
21	Q to describe precision time protocol;	ŧ.	Q On page 4 of Exhibit 93, there is a large
22	correct?	22	heading No. 3 entitled:
23	A True.	23 24	"Definitions, acronyms, and abbreviations."
24	Q And it uses that PTP acronym to describe the	25	Do you see that?
25	PTP functionality that you implemented in Cisco's	25	A Yes.
OF PROPERTY OF STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET,	Page 106		Page 108
1	industrial Ethernet devices; right?	1	Q And then subsection 3.1 says "Definitions."
2	MR. PAK: Objection; assumes facts not in	2	Do you see that?
3	evidence; mischaracterizes the witness' prior	3	A Yes.
4	testimony.	4	Q Definition 3.1.4 in the IEEE PTP
5	THE WITNESS: In this spec, yes.	5	specification defines the term "clock."
6	MR. WONG: Q. Well, is PTP used in Cisco's	6	Do you see that?
7	industrial Ethernet device in a different way than	7	A Yes, uh-huh.
8	what PTP means in Exhibit 93?	8	Q What is the definition of clock in the IEEE
9	MR. PAK: Objection; vague.	9	standard?
10	MR. WONG: Let me rephrase the question.	10	A It's no participating in the precision time
1.1	Q In the five commands that you're associated	11	protocol, PTP, that is capable of providing a
12	with in Exhibit 92	12	measurement of the passage of time since a defined
13	A Right.	13	epoch.
1.4	Q all of them use the acronym PTP; correct?	1.4	Q And you have read these definitions before
15	A Yes.	15	you began developing the PTP functionality in Cisco's
16	Q That PTP refers to the same PTP that is shown	16	industrial Ethernet devices; right?
17	on page 8 of Exhibit 93; right?	17	A Yes.
18	MR. PAK: Objection; vague.	18	Q So you were familiar with these IEEE defined
19	THE WITNESS: I think when I chose the	19	terms before you began working on the PTP
20	command, yes, I used PTP to mean the same as precision	20	functionality; correct?
21	time protocol	21	A Yes.
22	MR. WONG: Right.	22	Q And you knew they were in the IEEE standard;
23	THE WITNESS: as in the spec.	23	correct?
24	MR. WONG: Q. As in the spec and, in fact,	24	A Yes,
25	as in as on page 8 of Exhibit 93, correct, which	25	Q Okay. Now, the definition of clock that you
	FO 5- 2- 2- 3- 3- 3- 3- 3- 3- 3- 3- 3- 3- 3- 3- 3-	1	~yy

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<u> </u>	Page 109	- Company of the Comp	Page 111
1		1	
1	read, is that your understanding of what a clock is in	1	Q If you'd turn to page 53 of Exhibit 93. Let
2	the context of PTP?	2 3	me know when you're there. A 53?
3	MR. PAK: Objection; vague. THE WITNESS: So, in the context of PTP	4	Q The ending control number for that is '31805.
4	standard or spec, yes, a clock means this.	5	A (Witness complies.) Yeah, I found it.
5		6	Q Okay. If you look above so, near the
6 7	MR. WONG: Q. A clock means what it says on page 4 of	7	bottom of the page, you see in bold:
8	A Yes.	8	"7.6.2 PTP Device Attributes."
9	Q Exhibit 93?	9	Do you see that?
10		10	A Yes.
	A Right.	11	Q Okay. Right above that, there are there
11 12	Q And you you you did not come up with	12	are two sort of indented bullet points, I guess, or
13	the term clock in the context of PTP; correct? A No.	13	dashes.
	A No. Q All right.	14	Do you see that?
14	· · · · · · · · · · · · · · · · · · ·	15	A (Witness nods head.)
15	Clock is just a defined term in the IEEE standard marked as Exhibit 93; correct?	16	Q And then, right above that is a sentence that
16	·	17	begins with the words "ordinary and boundary clocks."
17	A Yes,	18	Do you see that?
18	Q Okay. If you'll look at page 6 of Exhibit 93.	19	A Ordinary and boundary clocks.
19 20		20	Q Yep.
	A (Witness complies.) Right.	21	A Okay.
21	Q Term 3.1.23; do you see that?	ŀ	
22	It defines the term "parent clock" correct?	22 23	Q So that full sentence says:
23	A Yes.	23	"Ordinary and boundary clocks may keep
24	Q What's the definition of parent clock?	24 25	statistics on the performance of their parents using
25	A The master clock to which a clock is	25	the following attributes."
den an de la que al sur families que se como	Page 110	Andrews of the second court of the second	Page 112
1	synchronized.	1	Do you see that?
2	Q And is that your understanding of what a	2	A I haven't found that sentence.
3	parent clock is in the context of PTP?	3	Oh, yeah, found it.
4	A It is.	4	Q Okay. That sentence in the IEEE standard
5	Q And you get that understanding from the IEEE	5	uses the term parents; do you see that?
6	standard marked as Exhibit 93; correct?	6	A Yes.
7	A Yes.	7	Q Is it your understanding that that that
8	Q All right.	8	parents term refers to a parent clock?
9	You don't disagree with that definition;	9	MR. PAK: If you need to take some time to
10	correct?	10	look at the document more closely, you can do that.
11	A No.	11	THE WITNESS: Yes.
12	Q And you don't disagree with the definition of	12	MR. PAK: Okay.
13	clock in the IEEE PTP standard; right?	13	THE WITNESS: I think it it's referring to
14	A No, I don't.	14	the parent clock.
15	Q Okay. Now, the term parent also refers to	15	MR. WONG: Right.
16	the parent clock in a PTP context; correct?	16	Q There's no ambiguity in the context of the
17	A The term parent	17	IEEE standard that parent refers to parent clock;
18	MR. PAK: Objection; vague.	18	right?
19	THE WITNESS: in this document	19	A Yes. Here, it means yeah, it does mean
20	MR. WONG: Yes.	20	parent clock.
21	THE WITNESS: whenever yeah, a parent	21	Q Okay. So, in the context of the PTP
22	clock is used, it means the definition here.	22	standard, referring to the parent of a clock is
23	MR. WONG: Sure.	23	referring to the defined term parent clock that we
24	THE WITNESS: Is that the question?	24	discussed a few minutes ago; correct?
25	MR. WONG: Sure.	25	A Yes.

	Page 113		Page 115
1	Q Okay. Now, if you look on that same page,	1	Exhibit 93.
2	underneath the heading "PTP Device Attributes," you	2	A (Witness complies.) Okay.
3	see the term "Priority 1"?	3	Q And you see right in the middle of the page,
4	A Yes.	4	it says "word usage"; correct?
5	Q What is a PTP device attribute?	5	A Uh-huh, I see.
6	A It's certain characteristics of a PTP clock.	6	Q And it defines "shall" in 4.2.1.
7	Q That are defined by the IEEE standard;	7	Do you see that?
8	correct?	8	A Yes.
9	A Yes, uh-huh.	9	Q And this is and you you read the entire
10	Q Okay. And these are device attributes that	10	standard before you implemented any of the
11	are mandatory to be supported to comply with the PTP	11	functionality with Cisco's products; right?
12	standard; correct?	12	A Yes.
13	MR. PAK: Objection; calls for expert	13	Q The definition of "shall" well, why don't
14	testimony.	14	you please read the definition of "shall."
15	MR. WONG: Q. If you know.	15	A "The word 'shall,' which is equivalent to 'is
16	A I didn't see anything as mandatory here.	16	required to,' is used to indicate mandatory
17	Q Okay. If you read the description of	17	requirements strictly to be followed in order to
18	priority 1, it says:	18	conform to the standard and from which no deviation is
19	"The attribute priority 1 is used in the	19	permitted."
20	execution of the best master clock algorithm; see	20	Q Okay. And you understood that when you read
21	9.3.2. Lower values take precedence. The	21	the standard; correct?
22	initialization value of priority 1 is specified in a	22	A Yes.
23	PTP profile. The value of priority 1 shall be	23	Q Okay. If you'd turn back to page 53 that we
24	configurable to any value in the range 0 to 255,	24	were just on.
25	unless restricted by limits established by an	25	A (Witness complies.) Right.
TAN DE CATEGO (1) CONTRACTO (100 A 15) > C	о полити на предметения на применения по политической политической политической политической политической поли Раде 114	es d'arquinement de la company de la company de la company de la company de la company de la company de la comp	Page 116
1	applicable PTP protocol" I'm sorry "PTP	1	Q So, it is a it is a requirement to comply
2	profile."	2	with the standard for there to be a value of
3	Did I read that correctly?	3	priority 1 that is configurable as described here on
4	A Yes.	4	page 53; correct?
5	Q Okay. Now, the the definition says the	5	A Yes.
6	value of priority 1 shall be configurable.	6	MR. PAK: Same and again same objection;
7	Do you see that?	7	calls for expert testimony.
8	A Yes.	8	MR. WONG: Q. If you'd turn I'm sorry.
		1	
9	O "Snail" is a mandatory term in the IEEE	9	
9 10	Q "Shall" is a mandatory term in the IEEE standard; correct?	1	And and do you have any disagreements with
	standard; correct? MR. PAK: Same objection; calls for expert	9 10 11	
10	standard; correct?	10	And and do you have any disagreements with the description of priority 1 here on page 53? A No.
10 11	standard; correct? MR. PAK: Same objection; calls for expert	10 11	And and do you have any disagreements with the description of priority 1 here on page 53?
10 11 12	standard; correct? MR. PAK: Same objection; calls for expert testimony.	10 11 12	And and do you have any disagreements with the description of priority 1 here on page 53? A No. Q Okay. If you'd turn to the next page in
10 11 12 13	standard; correct? MR. PAK: Same objection; calls for expert testimony. THE WITNESS: Would you please rephrase that	10 11 12 13	And and do you have any disagreements with the description of priority 1 here on page 53? A No. Q Okay. If you'd turn to the next page in Exhibit 93.
10 11 12 13 14	standard; correct? MR. PAK: Same objection; calls for expert testimony. THE WITNESS: Would you please rephrase that question.	10 11 12 13 14	And and do you have any disagreements with the description of priority 1 here on page 53? A No. Q Okay. If you'd turn to the next page in Exhibit 93. A (Witness complies.)
10 11 12 13 14 15	standard; correct? MR. PAK: Same objection; calls for expert testimony. THE WITNESS: Would you please rephrase that question. MR. WONG: Sure.	10 11 12 13 14 15	And and do you have any disagreements with the description of priority 1 here on page 53? A No. Q Okay. If you'd turn to the next page in Exhibit 93. A (Witness complies.) Q At the top, it has another attribute,
10 11 12 13 14 15	standard; correct? MR. PAK: Same objection; calls for expert testimony. THE WITNESS: Would you please rephrase that question. MR. WONG: Sure. Q "Shall" is a mandatory term strike that.	10 11 12 13 14 15 16	And and do you have any disagreements with the description of priority 1 here on page 53? A No. Q Okay. If you'd turn to the next page in Exhibit 93. A (Witness complies.) Q At the top, it has another attribute, "priority 2."
10 11 12 13 14 15 16	standard; correct? MR. PAK: Same objection; calls for expert testimony. THE WITNESS: Would you please rephrase that question. MR. WONG: Sure. Q "Shall" is a mandatory term strike that. "Shall" indicates a mandatory requirement in	10 11 12 13 14 15 16 17	And and do you have any disagreements with the description of priority 1 here on page 53? A No. Q Okay. If you'd turn to the next page in Exhibit 93. A (Witness complies.) Q At the top, it has another attribute, "priority 2." Do you see that?
10 11 12 13 14 15 16 17	standard; correct? MR. PAK: Same objection; calls for expert testimony. THE WITNESS: Would you please rephrase that question. MR. WONG: Sure. Q "Shall" is a mandatory term strike that. "Shall" indicates a mandatory requirement in the IEEE standard; correct?	10 11 12 13 14 15 16 17	And and do you have any disagreements with the description of priority 1 here on page 53? A No. Q Okay. If you'd turn to the next page in Exhibit 93. A (Witness complies.) Q At the top, it has another attribute, "priority 2." Do you see that? A Yes.
10 11 12 13 14 15 16 17 18	standard; correct? MR. PAK: Same objection; calls for expert testimony. THE WITNESS: Would you please rephrase that question. MR. WONG: Sure. Q "Shall" is a mandatory term strike that. "Shall" indicates a mandatory requirement in the IEEE standard; correct? MR. PAK: Objection; calls for expert	10 11 12 13 14 15 16 17 18	And and do you have any disagreements with the description of priority 1 here on page 53? A No. Q Okay. If you'd turn to the next page in Exhibit 93. A (Witness complies.) Q At the top, it has another attribute, "priority 2." Do you see that? A Yes. Q And the definition of priority 2 also has a
10 11 12 13 14 15 16 17 18 19 20	standard; correct? MR. PAK: Same objection; calls for expert testimony. THE WITNESS: Would you please rephrase that question. MR. WONG: Sure. Q "Shall" is a mandatory term strike that. "Shall" indicates a mandatory requirement in the IEEE standard; correct? MR. PAK: Objection; calls for expert testimony. MR. WONG: Q. And it may help A I can say only my understanding, that it's	10 11 12 13 14 15 16 17 18 19 20	And and do you have any disagreements with the description of priority 1 here on page 53? A No. Q Okay. If you'd turn to the next page in Exhibit 93. A (Witness complies.) Q At the top, it has another attribute, "priority 2." Do you see that? A Yes. Q And the definition of priority 2 also has a sentence that says:
10 11 12 13 14 15 16 17 18 19 20 21	standard; correct? MR. PAK: Same objection; calls for expert testimony. THE WITNESS: Would you please rephrase that question. MR. WONG: Sure. Q "Shall" is a mandatory term strike that. "Shall" indicates a mandatory requirement in the IEEE standard; correct? MR. PAK: Objection; calls for expert testimony. MR. WONG: Q. And it may help A I can say only my understanding, that it's recommending that priority 1 is an attribute, that	10 11 12 13 14 15 16 17 18 19 20 21	And and do you have any disagreements with the description of priority 1 here on page 53? A No. Q Okay. If you'd turn to the next page in Exhibit 93. A (Witness complies.) Q At the top, it has another attribute, "priority 2." Do you see that? A Yes. Q And the definition of priority 2 also has a sentence that says: "The value of priority 2 shall be configurable to any value in the range 0 to 255, unless restricted by limits established by an
10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	standard; correct? MR. PAK: Same objection; calls for expert testimony. THE WITNESS: Would you please rephrase that question. MR. WONG: Sure. Q "Shall" is a mandatory term strike that. "Shall" indicates a mandatory requirement in the IEEE standard; correct? MR. PAK: Objection; calls for expert testimony. MR. WONG: Q. And it may help A I can say only my understanding, that it's recommending that priority 1 is an attribute, that this is a configurable value.	10 11 12 13 14 15 16 17 18 19 20 21 22	And and do you have any disagreements with the description of priority 1 here on page 53? A No. Q Okay. If you'd turn to the next page in Exhibit 93. A (Witness complies.) Q At the top, it has another attribute, "priority 2." Do you see that? A Yes. Q And the definition of priority 2 also has a sentence that says: "The value of priority 2 shall be configurable to any value in the range 0 to 255, unless restricted by limits established by an applicable PTP profile."
10 11 12 13 14 15 16 17 18 19 20 21 22 23	standard; correct? MR. PAK: Same objection; calls for expert testimony. THE WITNESS: Would you please rephrase that question. MR. WONG: Sure. Q "Shall" is a mandatory term strike that. "Shall" indicates a mandatory requirement in the IEEE standard; correct? MR. PAK: Objection; calls for expert testimony. MR. WONG: Q. And it may help A I can say only my understanding, that it's recommending that priority 1 is an attribute, that	10 11 12 13 14 15 16 17 18 19 20 21 22 23	And and do you have any disagreements with the description of priority 1 here on page 53? A No. Q Okay. If you'd turn to the next page in Exhibit 93. A (Witness complies.) Q At the top, it has another attribute, "priority 2." Do you see that? A Yes. Q And the definition of priority 2 also has a sentence that says: "The value of priority 2 shall be configurable to any value in the range 0 to 255, unless restricted by limits established by an

	Page 117		Page 119
1	A Uh-huh, yes.	1	said, as required it's required to be
2	Q So the value of priority 2 strike that.	2	interoperable
3	So it's a requirement to comply with the PTP	3	MR. WONG: Okay.
4	standard for the value of priority 2 to be	4	THE WITNESS: at the PlugFest.
5	configurable as described here on page 54; correct?	5	MR. WONG: Q. So, to comply with the PTP
6	MR. PAK: Same objection; calls for expert	6	standard, there have to be configurable device
7	testimony.	7	attributes called priority 1 and priority 2 as
8	THE WITNESS: Yes, it's a parameter.	8	described on pages 53 and 54 of Exhibit 93?
9	MR. WONG: Right.	9	MR. PAK: Objection; calls for expert
10	THE WITNESS: Right.	10	testimony. Objection; vague.
11		11	THE WITNESS: My understanding is these two
	Q And that's your understanding, based upon the standard's own definition of what "shall" means within	12	
12		1	parameters, which needs to be configurable.
13	the document; correct?	13	MR, WONG: Okay.
14	A Yes.	14	Q To comply with the PTP standard?
15	Q Okay. And when you implemented the PTP	15	A Yes.
16	functionality in Cisco's devices, was it your	16	Q Okay. If you'd turn to page 62 of that same
17	intention to comply with the standard with the IEEE	17	document, Exhibit 93. Let me know when you're there.
18	standard marked as Exhibit 93?	18	A (Witness complies.) Yes, I'm on page 63.
19	MR. PAK: Objection; vague.	19	Q 62. I'm sorry.
20	THE WITNESS: Again, there were certain	20	A 62. (Witness complies.) Okay.
21	multiple aspects of it; right?	21	Q Okay. About two-thirds down on that page 62,
22	MR. WONG: Q. But, with respect to the two	22	there is a subheading 7.7.2.3.
23	device attributes that we just discussed, was it your	23	Do you see that?
24	intention to comply with the IEEE standard?	24	A Yes.
25	MR. PAK: Same objection; vague.	25	Q And the text next to that is:
ubak-uruna erikurakan shiribidiki w	Page 118		Page 120
1	THE WITNESS: I think we intended to make	1	"Sync (multicast) message transmission
2	these two parameters as configurable for PTP clock,	2	interval."
3	So, for that part, yes, the compliance is that we	3	Do you see that?
4	shall make these as configurable values.	4	A Yes.
5	MR. WONG: Q. As required by the IEEE	5	Q Now, the sentence below that says:
6	standard marked as	6	"The port DS.log sync interval shall specify
7	A Yes.	7	the mean time interval between successive sync
8	Q Exhibit 93; correct?	8	messages, i.e., the sync interval, when transmitted as
9	A Yes.	9	multicast messages."
10	Q Is it possible to have vendor	10	Do you see that?
11	interoperability for PTP if you don't comply with the	11	A Yes.
12	PTP standard?	12	Q Did I read that correctly?
13	MR. PAK: Objection; calls for expert	13	A Yes.
14	testimony; vague.	14	Q So the and that sentence, by the way, uses
15	MR. WONG: Q. In your view?	15	the word "shall" again; correct?
16	MR. PAK: Same objections.	16	A Yes.
17	THE WITNESS: In my view, the basic external	17	Q That indicates that this is a required a
18	behaviors needs to be consistent to be interoperable.	18	requirement of the PTP standard; correct?
19	MR. WONG: Q. And are the device attributes	19	MR. PAK: Objection; calls for expert
20	that we just discussed, priority 1 and priority 2, are	20	1
21	those part of those external behaviors that need to be	21	testimony. THE WITNESS: I my understanding is this
22	-	22	-
	consistent in order to support interoperability?	23	is to be supported to implement a PTP protocol.
23	MR. PAK: Same objection; vague.		MR. WONG: Q. And that understanding is
24 25	THE WITNESS: I think the priority value being configurable, changeable by users is as you	24 25	based upon the definition of "shall" provided on page 9 of the standard; correct?
	5 5 7 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		,

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	Page 121		Page 123
1	A Yes, uh-huh.	1	A Yes.
2	Q That definition of "shall" says that no	2	Q And at the top of Exhibit 95, there is a
3	deviation is permitted; correct?	3	"From" field on the e-mail.
4	If you need to look at page 9, you can	4	Do you see that?
5	confirm that.	5	A Yes.
6	A Right. No deviation of the behavior, I	6	Q And it says "Toni Liu."
7	guess.	7	Do you see that?
8	Q Okay.	8	A Yes.
9	A Right.	9	Q That's you; correct?
10	Q Is that your understanding?	10	A Yes.
11	A Right.	11	Q Your e-mail address while at Cisco was
12	Q So turning so you're still on page 62.	12	liut@cisco.com; correct?
13	The IEEE standard uses the term "sync interval" to	13	A Yes.
14	describe the mean time interval between successive	14	Q Now, was your e-mail address the same as it
15	sync messages; correct?	15	was in your second period at Cisco as it was at
16	A Sync interval as specified in the text here?	16	your first period at Cisco?
17	Q Yes.	17	A It's the same.
18	A Right. Yes.	18	Q It's the same?
19	Q So, do you agree that the IEEE standard	19	A Yes.
20	marked as Exhibit 93 on page 62 defines the sync	20	Q Okay. And this was this e-mail, marked as
21	interval as the mean time interval between successive	21	Exhibit 95, was sent on June 25th, 2008; correct?
22	sync messages when transmitted as multicast messages?	22	A Yes.
23	A Yes.	23	Q Okay. All right. Set that down for a
24	Q Okay. Do you have any disagreements with	24	moment.
25	that definition?	25	MR. WONG: Let's mark this one as Exhibit 96.
NOTIFIC CONTRACTOR SECURITY CONTRACTOR		ommenteriones	Page 124
1	A No.	1	(Document marked Exhibit 96
2	Q Okay. Is that your understanding of what a	2	for identification.)
3	sync interval is in the context of PTP?	3	MR. WONG: This is 96.
4	A Yes.	4	Q The court reporter has marked as Exhibit 96 a
5	MR. PAK: Objection; calls for expert	5	document bearing control Nos. CSICLI00608739 to '740.
6	testimony.	6	Please take a moment to look at this document.
7	MR. WONG: I'm going to mark two exhibits	7	A (Witness complies.) Okay.
8	right now. This one will be what number are we on?	8	Q This is also an e-mail; correct?
	THE REPORTER: 95.	9	A Yes.
9	THE REA ORTER, 55.	1	A 165.
9 10	MR. WONG: Okay. This one will be 95.	10	Q At the very top, there's a "From" field for
_		l	
10	MR. WONG: Okay. This one will be 95.	10	Q At the very top, there's a "From" field for
10 11	MR. WONG: Okay. This one will be 95. (Document marked Exhibit 95	10 11	Q At the very top, there's a "From" field for this e-mail.
10 11 12	MR. WONG: Okay. This one will be 95. (Document marked Exhibit 95 for identification.)	10 11 12	Q At the very top, there's a "From" field for this e-mail. Do you see that?
10 11 12 13	MR. WONG: Okay. This one will be 95. (Document marked Exhibit 95 for identification.) MR. WONG: 95. I'll do them one at a time.	10 11 12 13	Q At the very top, there's a "From" field for this e-mail. Do you see that? A Yes.
10 11 12 13 14	MR. WONG: Okay. This one will be 95. (Document marked Exhibit 95 for identification.) MR. WONG: 95. I'll do them one at a time. Okay.	10 11 12 13 14	Q At the very top, there's a "From" field for this e-mail. Do you see that? A Yes. Q It also says it's from liut@cisco.com, Toni
10 11 12 13 14 15	MR. WONG: Okay. This one will be 95. (Document marked Exhibit 95 for identification.) MR. WONG: 95. I'll do them one at a time. Okay. Q So the court reporter has marked as	10 11 12 13 14 15	Q At the very top, there's a "From" field for this e-mail. Do you see that? A Yes. Q It also says it's from liut@cisco.com, Toni Liu?
10 11 12 13 14 15	MR. WONG: Okay. This one will be 95. (Document marked Exhibit 95 for identification.) MR. WONG: 95. I'll do them one at a time. Okay. Q So the court reporter has marked as Exhibit 95 the document with control	10 11 12 13 14 15 16	Q At the very top, there's a "From" field for this e-mail. Do you see that? A Yes. Q It also says it's from liut@cisco.com, Toni Liu? A Yes.
10 11 12 13 14 15 16	MR. WONG: Okay. This one will be 95. (Document marked Exhibit 95 for identification.) MR. WONG: 95. I'll do them one at a time. Okay. Q So the court reporter has marked as Exhibit 95 the document with control Nos. CSICLI00846643, and that's it.	10 11 12 13 14 15 16 17	Q At the very top, there's a "From" field for this e-mail. Do you see that? A Yes. Q It also says it's from liut@cisco.com, Toni Liu? A Yes. Q That's you; correct?
10 11 12 13 14 15 16 17	MR. WONG: Okay. This one will be 95. (Document marked Exhibit 95 for identification.) MR. WONG: 95. I'll do them one at a time. Okay. Q So the court reporter has marked as Exhibit 95 the document with control Nos. CSICLI00846643, and that's it. A Uh-huh.	10 11 12 13 14 15 16 17 18	Q At the very top, there's a "From" field for this e-mail. Do you see that? A Yes. Q It also says it's from liut@cisco.com, Toni Liu? A Yes. Q That's you; correct? A True.
10 11 12 13 14 15 16 17 18	MR. WONG: Okay. This one will be 95. (Document marked Exhibit 95 for identification.) MR. WONG: 95. I'll do them one at a time. Okay. Q So the court reporter has marked as Exhibit 95 the document with control Nos. CSICLI00846643, and that's it. A Uh-huh. Q Ms. Liu, do you recognize this document? A Yes.	10 11 12 13 14 15 16 17 18 19	Q At the very top, there's a "From" field for this e-mail. Do you see that? A Yes. Q It also says it's from liut@cisco.com, Toni Liu? A Yes. Q That's you; correct? A True. Q Do you have any doubt that you sent this e-mail marked as Exhibit 96?
10 11 12 13 14 15 16 17 18 19 20	MR. WONG: Okay. This one will be 95. (Document marked Exhibit 95 for identification.) MR. WONG: 95. I'll do them one at a time. Okay. Q So the court reporter has marked as Exhibit 95 the document with control Nos. CSICLI00846643, and that's it. A Uh-huh. Q Ms. Liu, do you recognize this document?	10 11 12 13 14 15 16 17 18 19 20	Q At the very top, there's a "From" field for this e-mail. Do you see that? A Yes. Q It also says it's from liut@cisco.com, Toni Liu? A Yes. Q That's you; correct? A True. Q Do you have any doubt that you sent this
10 11 12 13 14 15 16 17 18 19 20 21	MR. WONG: Okay. This one will be 95. (Document marked Exhibit 95 for identification.) MR. WONG: 95. I'll do them one at a time. Okay. Q So the court reporter has marked as Exhibit 95 the document with control Nos. CSICLI00846643, and that's it. A Uh-huh. Q Ms. Liu, do you recognize this document? A Yes. Q Is this one of the documents that refreshed	10 11 12 13 14 15 16 17 18 19 20 21	Q At the very top, there's a "From" field for this e-mail. Do you see that? A Yes. Q It also says it's from liut@cisco.com, Toni Liu? A Yes. Q That's you; correct? A True. Q Do you have any doubt that you sent this e-mail marked as Exhibit 96? A I don't have any doubt I sent it. Q Okay. And the exhibit marked as Exhibit 95,
10 11 12 13 14 15 16 17 18 19 20 21	MR. WONG: Okay. This one will be 95. (Document marked Exhibit 95 for identification.) MR. WONG: 95. I'll do them one at a time. Okay. Q So the court reporter has marked as Exhibit 95 the document with control Nos. CSICLI00846643, and that's it. A Uh-huh. Q Ms. Liu, do you recognize this document? A Yes. Q Is this one of the documents that refreshed your recollection as to prior events?	10 11 12 13 14 15 16 17 18 19 20 21 22	Q At the very top, there's a "From" field for this e-mail. Do you see that? A Yes. Q It also says it's from liut@cisco.com, Toni Liu? A Yes. Q That's you; correct? A True. Q Do you have any doubt that you sent this e-mail marked as Exhibit 96? A I don't have any doubt I sent it.

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	Page 137		Page 139
1	AFTERNOON SESSION	1	MR. WONG: Okay.
2	1:41 P.M.	2	Q And you in describing the function
3		3	performed by the "PTP priority 1" command, you
4		4	testified that it configures the priority 1 parameter
5		5	for the PTP clock; correct?
6	THE VIDEOGRAPHER: We are back on the record.	6	A Yes.
7	It is 1:41.	7	Q And the priority 1 parameter for the PTP
8	MR. WONG: Q. So, Ms. Liu, before the lunch	8	clock, that's the same priority 1 parameter that we
9	break, we talked about the five commands that are	9	discussed in Exhibit 93; correct?
10	associated with you in Exhibit 92.	10	A When you say "parameter," I think they are a
11	A Yes.	11	little different in the CLI and the spec.
12	Q One of the commands is "PTP priority 1."	12	Q How are they different?
13	A Yes.	13	A The in the spec, it's the attribute of the
14	Q Do you see that?	14	clock; right? When I say parameter, I mean the in
15	A Uh-huh.	15	the context of the CLI command is a parameter.
16	Q What is the function that the "PTP	16	Q Oh, I see.
17	priority 1" command performs?	17	So so the word priority 1 in the "PTP
18	A It configures the priority 1 parameter for	18	priority 1" CLI command is a parameter of the command?
19	the PTP clock.	19	A Yes.
20	Q Okay. And when you say "for the PTP clock,"	20	Q That's what you mean by
21	you mean PTP as defined by the IEEE standard; right?	21	A Right.
22	A Yes.	22	Q parameter?
23	Q You're not talking about a different PTP	23	A Right.
24	that's separate from the IEEE standard; right?	24	Q Okay. Now, does the priority 1 parameter in
25	A No.	25	the CLI command "PTP priority 1," does that refer to
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	Page 138		Page 140
1	Q Okay. And the PTP in the command "PTP	1	the priority 1 attribute in the IEEE standard marked
2	priority 1" refers to the IEEE standard; correct?	2	as Exhibit 93?
3	MR. PAK: Objection; vague.	3	MR. PAK: Objection; vague.
4	THE WITNESS: It refers to, yeah, PTP.	4	THE WITNESS: Yes. I think I chose it for
5	MR. WONG: Q. It refers to the IEEE PTP	5	the intention to mean the priority 1 attribute of the
6	standard that we marked as Exhibit 93; correct?	6	clock.
7	A Yes.	7	MR. WONG: Q. And is your answer the same
8	Q Okay. And the use of the word PTP in all	8	for the command "PTP priority 2"?
9	five of the commands that are associated with you in	9	Is the priority 2 command parameter does
10	Exhibit 92, they all come from the IEEE standard	10	that refer to the priority 2 attribute in the IEEE
11	marked as Exhibit 93; correct?	11	standard marked as Exhibit 93?
12	MR. PAK: Objection; vague; mischaracterizes	12	MR. PAK: Same objection.
13	the witness' testimony.	13	THE WITNESS: It's referring to the same
14	THE WITNESS: You mean the PTP	14	that attribute, yes.
15	MR. WONG: Q. Let me ask the question	15	MR. WONG: Q. That attribute in the IEEE
16	A word in the command?	16	standard?
17	Q Yes.	17	A In the IEEE standard, yes.
18	Let me ask a clean question.	18	Q Okay. And you knew about the priority 1 and
19	The use of the word PTP in all five of the	19	priority 2 attributes in the IEEE standard before you
20	commands that are associated with you in Exhibit 92	20	started adding the "PTP priority 1" and "PTP
21	A Right.	21	priority 2" commands to the iOS software; correct?
22	Q that word came from the PTP IEEE standard	22	A Yes, I read the spec.
23	that was marked as Exhibit 93; correct?	23	Q And you were aware of those two particular
24	MR. PAK: Same objections.	24	attributes before you started adding the "PTP
25	THE WITNESS: Yes, it means the same.	25	priority 1" and "PTP priority 2" commands to Cisco's
			l de la companya de la companya de la companya de la companya de la companya de la companya de la companya de

	Page 141	1	Page 143
1	routing software; right?	1	today
2	A Yes.	2	Q Okay.
3	Q How long did it take you to come up with the	3	A that I saw.
4	"PTP priority 1" command?	4	Q So the
5	A I don't remember how long it took for me to	5	A Yeah.
6	come up with the list of CLI commands.	6	Q So the same e-mails that were marked as
7	Q Okay. I'm just asking about the the one	7	exhibits in today's deposition are the ones that
8	command, "PTP priority 1."	8	refreshed your memory?
9	A Right.	9	A Right.
10	Q Did did that take you an hour to come up	10	Q Okay. How long did it take you to write
11	with that command?	11	the strike that.
12	MR. PAK: Objection; vague.	12	Did you write the implementing source code
13	THE WITNESS: You mean just to decide on the	13	for the "PTP priority 1" command
14	syntax of the command?	14	A I did write the source code for implementing
15	MR. WONG: On the two words in the command.	15	this command.
16	That's right.	16	Q How long did it take you to write the source
17	Q How long did it take you to decide on the	17	code for the "PTP priority 1" command?
18	two words, "PTP priority 1," in that command?	18	A I don't remember any time frame on this.
19	A I don't remember.	19	lt's it's been a while.
20	Q Did it take you more than a day?	20	Q Do you know if it took you longer to write
21	MR. PAK: Objection; vague.	21	the implementing source code for the "PTP priority 1"
22	THE WITNESS: Maybe not. I don't recall the	22	command than it took you to choose the two words "PTP
23	details of of this level.	23	priority 1"?
24	MR. WONG: Okay.	24	MR. PAK: Objection; vague.
25	Q Do you	25	THE WITNESS: I would think it took longer to
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			Page 144
1		1	
1 2	A How long, yeah.	1 2	implement it.
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	Page 145		Page 147
1	A Yes. I I agree	1	Q Okay. What function does the "PTP sync
2	Q Okay.	2	interval" command perform?
3	A that's likely true.	3	A It configures how often the clock syncs with
4	Q So that's likely true for the other four	4	the master.
5	commands as well?	5	Q And do you recall earlier we were looking at
6	MR. PAK: Objection; vague.	6	the IEEE standard marked Exhibit 93 and a term called
7	THE WITNESS: That's yeah, I can always	7	sync interval in there?
8	say that's likely true.	8	A Right.
9	MR. WONG: Okay.	9	Q Is the sync interval, that the "PTP sync
10	Q And you say "it's likely true" just based	10	interval" command refers to, the same sync interval
11	upon your experience programming?	11	that we discussed in Exhibit 93?
12	A It's yeah, it's just based on my	12	MR. PAK: Objection; vague.
13	experience working with CLI commands.	13	THE WITNESS: I think that was this
14	Q What type of programming is required to	14	command was used was defined to be used to
15	implement a command like "PTP priority 1"?	15	configure that part of the clock.
16	A It's a C programming that we were using. So	16	MR. WONG: Right.
17	for the in general, you do the front end of	17	Q And by "that part of the clock," you mean the
18	interface, so you come up with the command. But then	18	sync interval attribute defined by the IEEE PTP
19	you then you spend time implementing hooking it up	19	standard; right?
20	to the back-end code.	20	A Yes.
21	O Excuse me.	21	
22	And when you say "back-end code," is that the	22	Q Now, you chose the term priority 1 because
23	same thing as the implementing source code?	23	priority 1 is an attribute that's in the IEEE standard; right?
24	That's the term that I was using.	24	·
25	Is that the same thing, in your	25	MR. PAK: Objection; vague. THE WITNESS: You mean when I wrote the
2.5	is that the same thing, in your	23	THE WITNESS: You mean when I wrote the
	Page 146		Page 148
1	understanding?	1	command?
2	A Yes.	2	MR. WONG: Q. When you
3	There so, when the CLI command is	3	A When I when I chose to use priority 1;
4	received, something needs to happen based on what has	4	right?
5	been configured as being specified as the parameter.	5	Q Yes, that's what I'm asking.
6	So that's the interface I was referring to, that I	6	A Yes. When I chose the word, I meant to
7	hook up to the back-end behavior of the clock.	7	configure this attribute for the clock. That was
8	Q And the back-end behavior for each command	8	true.
9	that you are associated with in Exhibit 92, did you	9	Q And this attribute for the clock, you're
10	write that source code?	10	referring to the priority 1 attribute that's defined
11	A I did write the source code.	11	in the IEEE standard; right?
	Q Did you have anyone else's help in writing	12	1 7
12		12	A Yes,
13	the source code for those five commands associated	13	Q And your answer is the same for the
13 14	the source code for those five commands associated with you in Exhibit 92?	13 14	Q And your answer is the same for the priority 2 attribute defined in the IEEE standard,
13 14 15	the source code for those five commands associated with you in Exhibit 92? A No. I wrote all of them.	13	Q And your answer is the same for the
13 14 15 16	the source code for those five commands associated with you in Exhibit 92? A No. I wrote all of them. Q The "PTP sync interval" command	13 14	Q And your answer is the same for the priority 2 attribute defined in the IEEE standard,
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	Page 153		Page 155
1	Q You were aware that the terms priority 1,	1	A "Show" is a
2	priority 2, sync interval, and PTP were defined in the	2	Q Sorry.
3	IEEE specification marked as Exhibit 93 before you	3	A big category of commands. Like, there is
4	added those three commands to Cisco's routing	4	debug. There is config. There is show. So show is
5	software; correct?	5	one big category of commands.
6	A I'm aware of those terms being defined in the	6	Q And there was a big and that category of
7	1588 standard.	7	commands, the show commands, existed before you added
8	Q Okay. Before you added those three commands	8	the "show PTP clock" command to the software; correct?
9	to the Cisco software; correct?	9	A Yes.
10	A Yes.	10	Q And you were just building upon that category
11	Q Okay. Now, "show PTP clock" is another	11	of commands when you used the word "show" in "show PTP
12	command that you're associated with; correct?	12	clock"; correct?
13	A Yes.	13	MR. PAK: Objection; mischaracterizes the
14	Q What's the function performed by the "show	14	witness' testimony.
15	PTP clock" command?	15	THE WITNESS: Yes, I think that that was
16	A It shows the state and status of the clock.	16	the intention.
17	And I don't recall the entire output from the command,	17	MR. WONG: Q. And is the same
18	but I think that's probably summarize majority of the	18	explanation does the same explanation apply to
19	output.	19	"show PTP parent" for the show aspect of that command?
20	Q Okay. And as we discussed earlier in today's	20	A Yes, for the show aspect of the command, yes.
21	deposition, the PTP IEEE specification defines the	21	Q Okay. What function does the "show PTP
22	term clock; correct?	22	parent" command perform?
23	A It defined the term clock, yes.	23	A It shows the status of the parent clock.
24	Q Okay. And the clock that is referred to in	24	Q When you say "the parent clock," are you
25	the command "show PTP clock" is the clock that is	25	referring to the parent clock as defined in the PTP
SERVICE OF PRESENCE			
namentalen ett et en gentlete var	Page 154		Page 156
1	defined in the PTP standard; correct?	1	Page 156 standards?
2	defined in the PTP standard; correct? MR. PAK: Objection; vague.	1 2	standards? A Yes.
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	Page 213	Page 215
1	(WHEREUPON, the deposition ended	1 CERTIFICATE OF REPORTER
2	at 3:36 p.m.)	2 I, ANDREA M. IGNACIO, hereby certify that the
3	000	3 witness in the foregoing deposition was by me duly
4		4 sworn to tell the truth, the whole truth, and nothing
5		5 but the truth in the within-entitled cause;
6		6 That said deposition was taken in shorthand
7		by me, a disinterested person, at the time and place
8		8 therein stated, and that the testimony of the said
9		9 witness was thereafter reduced to typewriting, by
10		computer, under my direction and supervision;
11		11 That before completion of the deposition,
12		12 review of the transcript [x] was [] was not
13 14		13 requested. If requested, any changes made by the
15		deponent (and provided to the reporter) during the period allowed are appended hereto.
16		16 I further certify that I am not of counsel or
17		17 attorney for either or any of the parties to the said
18		deposition, nor in any way interested in the event of
19		this cause, and that I am not related to any of the
20		20 parties thereto.
21		21 Dated: 01/29/2016
22		22
23		23 <%signature%>
24		24 ANDREA M. IGNACIO,
25		25 RPR, CRR, CCRR, CLR, CSR No. 9830
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	I, TONG LIU, do hereby certify under penalty of perjury, that I have read the foregoing transcript of my deposition in the matter of Cisco Systems, Inc., vs. Arista Networks, Inc., taken on January 15, 2016; that I have made such corrections as appear noted herein in ink, initialed by me; that my testimony as contained herein, as corrected, is true and correct. DATED this day of, SIGNATURE OF WITNESS NOTARIZATION (If Required) State of County of Subscribed and sworn to (or affirmed) before me on this day of, proved to me on the basic of estic fectors a video ne to be the person who	
22 23	basis of satisfactory evidence to be the person who appeared before me.	
24	Signature: (Seal)	
25		

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 1
                  UNITED STATES DISTRICT COURT
 2
                 NORTHERN DISTRICT OF CALIFORNIA
 3
                         SAN JOSE DIVISION
 4
 5
      CISCO SYSTEMS, INC.,
 6
                    Plaintiff,
                                  ) Case No.
 7
                                  ) 5:14-cv-05344-BLF (PSG)
               vs.
       ARISTA NETWORKS, INC.,
 8
 9
                    Defendant.
10
11
12
            HIGHLY CONFIDENTIAL - ATTORNEYS' EYES ONLY
13
14
15
            VIDEOTAPED DEPOSITION OF KIRK LOUGHEED
                       Palo Alto, California
16
17
                     Friday, November 20, 2015
                            Volume I
18
19
20
21
22
      Reported by:
      CARLA SOARES
23
      CSR No. 5908
24
      Job No. 2187110
25
      Pages 1 - 189
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2	UNITED STATES DISTRICT COURT	1	APPEARANCES (Continued):
	NORTHERN DISTRICT OF CALIFORNIA	2	
3	SAN JOSE DIVISION	3	For the Defendant:
4 5	CICCO EVETEME INC. \	4	KEKER & VAN NEST LLP
5	CISCO SYSTEMS, INC.,)	5	BY: BRIAN L. FERRALL, Attorney at Lav
6	Plaintiff,)	6	BY: RYAN WONG, Attorney at Law
J) Case No.	7	633 Battery Street
7	vs.) 5:14-cv-05344-BLF (PSG)	8	
)	1	San Francisco, California 94111
8	ARISTA NETWORKS, INC.,)	9	415.391.5400
		10	bferrall@kvn.com
9	Defendant.)	11	rwong@kvn.com
1.0)	12	
10 11		13	ALSO PRESENT: Sean Grant, Video Operator
12		14	000
13		15	
14		16	
15		17	
16	VIDEOTAPED DEPOSITION OF KIRK LOUGHEE	D, ₁₈	
17	Volume I, taken on behalf of Defendant, at	19	
18	650 Page Mill Road, Palo Alto, California, beginning	20	
19 20	at 9:19 a.m., and ending at 6:15 p.m., on Friday,	21	
21	November 20, 2015, before CARLA SOARES, Certified Shorthand Reporter No. 5908.		
22	Shormand Reporter No. 3908.	22	
23		23	
24		24	
25		25	
	Page 2		Page 4
1	APPEARANCES:	1	INDEX
2		2	WITNESS
3	For the Plaintiff and the Witness:	3	KIRK LOUGHEED EXAMINATIO
4	QUINN EMANUEL URQUHART & SULLIVAN, LI	Р	Volume I
5	BY: JOHN (JAY) NEUKOM, Attorney at Law	4	
6	50 California Street, 22nd Floor	5	BY MR. FERRALL 10
7	San Francisco, California 94111	6	
	The state of the s	7	EXHIBITS
8	415.875.6341	8	NUMBER DESCRIPTION PAGE
9	johnneukom@quinnemanuel.com	9	Exhibit 29 Document headed "Internet 73
10	and	10	Protocol,"
11	KIRKLAND & ELLIS LLP	11	Bates ARISTANDCA0031553 - 1601
12	BY: JOSHUA L. SIMMONS, Attorney at Law	12	Dailes AIMS IAINDCA0031333 - 1001
13	601 Lexington Avenue	13	Exhibit 30 Document headed "DoD Internet 73
	N W N W 10000		
14	New York, New York 10022	1/	
	212-446-4989	14 15	Host Table Specification"
14	,	15	•
14 15	212-446-4989	15 16	Exhibit 31 Document headed "An Ethernet 73
14 15 16 17	212-446-4989	15 16 17	Exhibit 31 Document headed "An Ethernet 73 Address Resolution Protocol or
14 15 16 17	212-446-4989	15 16 17 18	Exhibit 31 Document headed "An Ethernet 73 Address Resolution Protocol or Converting Network Protocol
14 15 16 17 18	212-446-4989	15 16 17 18 19	Exhibit 31 Document headed "An Ethernet 73 Address Resolution Protocol or Converting Network Protocol Addresses to 48.bit Ethernet
14 15 16 17 18 19	212-446-4989	15 16 17 18 19 20	Exhibit 31 Document headed "An Ethernet 73 Address Resolution Protocol or Converting Network Protocol Addresses to 48.bit Ethernet Address for Transmission on
14 15 16 17 18 19 20 21	212-446-4989	15 16 17 18 19 20 21	Exhibit 31 Document headed "An Ethernet 73 Address Resolution Protocol or Converting Network Protocol Addresses to 48.bit Ethernet Address for Transmission on Ethernet Hardware,"
14 15 16 17 18 19 20 21	212-446-4989	15 16 17 18 19 20 21	Exhibit 31 Document headed "An Ethernet 73 Address Resolution Protocol or Converting Network Protocol Addresses to 48.bit Ethernet Address for Transmission on
14 15 16 17 18 19 20 21 22 23	212-446-4989	15 16 17 18 19 20 21 22 23	Exhibit 31 Document headed "An Ethernet 73 Address Resolution Protocol or Converting Network Protocol Addresses to 48.bit Ethernet Address for Transmission on Ethernet Hardware,"
14 15 16 17 18 19 20 21	212-446-4989	15 16 17 18 19 20 21	Exhibit 31 Document headed "An Ethernet 73 Address Resolution Protocol or Converting Network Protocol Addresses to 48.bit Ethernet Address for Transmission on Ethernet Hardware,"

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			1	
1	EXHIBITS		1	EXHIBITS
2		AGI	j	NUMBER DESCRIPTION PAGE
3	Exhibit 32 Document headed "Address	85	3	Exhibit 43 Document entitled "DECbrouter 90 18
4	Resolution Protocol (ARP) module	00	4	Products," Bates CSI-ANI-00081683 -
5	for the Yeager gateway"		5	1683.000344
6	for the Touget gateway		6	10001000011
7	Exhibit 33 Email string, top email to Kirk 8	9	7	000
8	Lougheed and Paula Labloner from		8	000
9	Mike Sanchez, dated 11-17-14,		9	
10	Bates CSI-CLI-01326834 - 6837		10	
11	Dates Col-Col-V1320034 - 0037		11	
12	Exhibit 34 Email string, top email to Phillip 9	3	12	
13	Remaker from Kirk Lougheed, dated	,	13	
14	3-30-10, Bates CSI-CLI-01317865 -		14	
15	7866		15	
16	7800		16	
17	Exhibit 35 Email string, top email to Joe 100	^	17	
18	Hielscher from Kirk Lougheed,	'	18	
19	dated 7-23-08,		19	
20	Bates CSI-CLI-01134849 - 4850		20	
21	Dates CSI-CLI-01134649 - 4630		21	
22	Exhibit 36 Document entitled "Stanford 10	11	22	
23	Ethertip/Gateway User and	01	23	
24				
25	Configuration Guide,"	İ	24	
23	Bates CSI-CLI-01315523 - 5568 Page	6	25	Page 8
	Lage			rage v
1	EXHIBITS		1	Palo Alto, California 08:37:04
2	NUMBER DESCRIPTION PA	١GE	2	Friday, November 20, 2015
3	Exhibit 37 Document entitled "cisco Systems	106	3	9:19 a.m.
4	AGS User Manual,"		4	
5	Bates CSI-CLI-00358166 - 8223		5	PROCEEDINGS 08:37:10
6			6	THE VIDEO OPERATOR: Good morning. We're
7	Exhibit 38 Email string, top email to Phillip 12	2	7	on the record. The time is 9:19 a m., and the date
8	Remaker from Kirk Lougheed, dated		8	is November 20th, 2015. This begins the videotaped
9	12-11-08, Bates CSI-ANI-00043306 -	ŀ	9	deposition of Kirk Lougheed.
10	3306.000001		10	My name is Sean Grant, here with our court 09:19:25
11			11	reporter, Carla Soares. We're here from Veritext
12	Exhibit 39 Document entitled "Cisco's 152	2	12	Legal Solutions at the request of counsel for
13	Response to Arista's Interrogatory		13	defendant.
14	No. 16 Amended Exhibit D1 (IOS		14	This deposition is being held at Wilson
15	Release 11.0)"		15	Sonsini in Palo Alto, California. The caption of 09:19:34
16			16	this case is Cisco Systems, Inc., versus Arista
17	Exhibit 40 Email to Craig Fox from Kirk 16	50	17	Networks, Inc., Case No. 5:14-CV-05344-BLF.
18	Lougheed, dated 3-6-96,		18	Please note that audio- and
19	Bates CSI-CLI-00746398		19	video-recording will take place unless all parties
20			20	have agreed to go off the record. Microphones are 09:19:5
21	Exhibit 41 Document described as source 1	62	21	sensitive and may pick up whispers, private
22	code file		22	conversations, or cellular interference.
23			23	At this time, will counsel please identify
	Exhibit 42 Document described as code 17	77	24	themselves and state whom they represent.
24	Exhibit 42 Document described as code 17			
24 25	Page		25	MR, FERRALL: Brian Ferrall of Keker & 09:20:

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1	right now. 12:58:39	:	calls for a conclusion. 13:03:06
2	Mr. Lougheed, you have to understand,	1	THE WITNESS: Documents whose name I do
3	we've got a lot to cover today, and I need to	:	not recall.
4	A And I'm also under oath, and I want to	4	BY MR. FERRALL:
5	make sure my replies to your answers (sic) are 12:58:	7 5	Q Can you describe generally what they were? 13:03:
6	correct.	(A They were documents that described a
7	Q Okay. So I'm asking you you can put	7	packet format and described an associated state
8	the document down, frankly.	8	machine.
9	Do you ever recall reviewing an RFC for an	9	Q Is the address resolution protocol
10	address resolution protocol? 12:58:58	10	referred to simply by the acronym ARP? 13:03:59
11	A Yes, I do recall reviewing a document	11	A There's a general concept of an address
12	it may have been an RFC on address resolution.	12	resolution protocol, and then there's one, possibly
13	Q Do you know who developed address	13	more, that are may be described in various
14	resolution protocols?	14	documents from the IETF.
15	A I don't recall, 12:59:20	15	Q When did you first hear have you ever 13:04:52
16	Q Did you contribute to that field?	16	•
17	A No.	17	,
18	Q All right. Do you know David Plummer?	18	A Yes.
19	A I have heard the name before but I don't	19	Q When did you first hear that abbreviation?
20	know the person. 12:59:31	20	
21	Q How many IETF RFCs have you authored in	21	precise time.
22	whole or in part?	22	Q Was it while you were still at Stanford?
23	A Two, maybe three.	23	A It certainly could have been.
24	Q What were the subject or subjects of those	24	Q Did you develop any features for the
25	RFCs? 13:00:07	25	address resolution protocol yourself? 13:05:52
	Page 78		Page 80
1	A They were all on the border gateway 13:00:09	1	MR NEUKOM: Objection Vague 13:05:56
2	protocol.	2	THE WITNESS: I do not understand your
3	Q Has Cisco ever had any policies about	3	question What do you mean, develop features for
4	their employees submitting RFCs to the IETF?	4	the address resolution protocol?
5	A I'm not aware of any specific policies. 13:01:02	5	BY MR FERRALL: 13:06:12
6	Q Did the software that you worked on at	6	Q Fair enough. Let me ask it a different
7	Stanford, the routing and terminal server software	7	way.
8	we talked about, did that include an address	8	Did you contribute to any IETF RFC
9	resolution protocol?	9	relating to the address resolution protocol?
10	MR. NEUKOM: Objection to form. Vague. 13:02:0		MR NEUKOM: Objection Asked and 13:06:27
11	BY MR. FERRALL:	11	answered
12	Q I should say an address resolution	12	THE WITNESS: No
13	protocol feature.	13	BY MR FERRALL:
14	-	14	
15	MR. NEUKOM: Same objection,	15	Q Did you develop features at while at Cisco that relate to ARP, if you don't mind me using 13:06:4
16	THE WITNESS: Yes. 13:02:23 BY MR. FERRALL:	16	, .
17		17	the acronym?
	Q And what were the sources of information		A I don't understand the question
18	for you in order to well, strike that.	18	Q Who is Glenn Truitt?
19	Did you write software for the address	19	A He's a at my time at Stanford, he was a
20	resolution protocol feature? 13:02:38	20	graduate student 13:08:37
21	A Yes.	21	Q Did you work with him while at Stanford?
00	Q And what were the sources of information	22	A Briefly
22			
23	that you used to prepare that address resolution	23	Q In what capacity?
	that you used to prepare that address resolution protocol feature? MR. NEUKOM: Objection to form. Vague, 13:02:58	24	A I recollect that he may have written a user guide to the software at the time, but that's 13:09:21

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	MR. FERRALL: Let's mark this as the next 15:26:35	1	message indicates that you are looking at an error 15:29
2	exhibit.	2	message. An ancient operating system called TOPS-20
3	(Exhibit 38 was marked for identification	3	used such a convention and I adopted it."
4	and is attached hereto.)	4	Do you see that?
5	BY MR. FERRALL: 15:26:37	5	A Yeah, I do see that. 15:29:59
6	Q Exhibit 38 is a set of emails between you	6	Q Why did you adopt a TOPS-20 convention?
7	and Mr. Remaker, among others. It bears control	7	A Of the possibilities that I had, that
8	numbers CSI-ANI-00043306.	8	seemed that seemed a reasonable to me, it
9	A Okay. I'd like to read this.	9	seemed like a reasonable way of doing things.
10	Q First let me ask you the question so you 15:27:19	10	Q Did you get permission from Digital 15:30:32
11	know what to look for.	11	Equipment Company to use that convention?
12	A I will forget the question by the time I'm	12	MR. NEUKOM: Objection. Calls for a legal
13	done reading this.	13	conclusion and misstates prior testimony.
14	Q Well, Mr. Lougheed, that's not the way it	14	THE WITNESS: No, I did not seek
15	works, actually. I ask the question and you answer 15:27:	28 15	permission. 15:30:55
16	it.	16	BY MR. FERRALL:
17	A Okay	17	Q Have you ever heard of the acronym RIP in
18	Q If you can't answer it, then you tell me.	18	the context of networking?
19	My only question is, did you send the	19	A It typically means routing information
20	email that's at the top of Exhibit 38, the one at 15:27:38	20	protocol. 15:31:18
21	12-11-2008 at 10:14 p.m.?	21	Q You're familiar with that protocol?
22	MR. NEUKOM: Mischaracterizes the document	22	A It's been a while, but yes, I'm familiar
23	on its face.	23	with it.
	And I know that Mr. Ferrall would like you	24	
24		25	Q Did you make up the acronym RIP for routing information protocol? 15:31:32
25	to feel comfortable to read the page-and-a-half 15:27:54 Page 122	23	Page 124
1	document that he's just put in front of you before 15:27:57	1	A No, I did not make up that acronym. 15:31:37
2	answering his question.	2	Q Did you make up the term "routing
3	THE WITNESS: Okay. I'll read it.	3	information protocol"?
4	·	4	A No.
	MR. FERRALL: Actually, no, I would like him to answer the question. 15:28:03	5	
5		6	
6	Q Are you telling me you can't tell me		information protocol?
7	whether you sent the email?	7	A No.
8	MR. NEUKOM: It's a totally unfair	8	Q Do you know who did?
9	question. The email that he sent would necessarily	9	A No, I don't know who did.
10	include everything that follows. 15:28:10	10	Q Did you ever ask permission from the 15;32:2
11	If you want him to tell you whether he	11	person who made up the term "RIP" for permission to
	and the second state and the second state of t	12	use it, to use that term?
12	remembers this or whether he sent it, let him read		•
	the document. Come on, Brian.	13	MR. NEUKOM: Objection. Foundation,
12			MR. NEUKOM: Objection. Foundation, vague, and calls for a legal conclusion.
12 13	the document. Come on, Brian.	13 14	MR. NEUKOM: Objection. Foundation, vague, and calls for a legal conclusion.
12 13 14	the document. Come on, Brian. It's a page and a half. We're not talking	13 14	MR. NEUKOM: Objection. Foundation, vague, and calls for a legal conclusion.
12 13 14 15	the document. Come on, Brian. It's a page and a half. We're not talking about him wasting 30 minutes to read a product 15:28:20	13 14 15	MR. NEUKOM: Objection. Foundation, vague, and calls for a legal conclusion. THE WITNESS: There was no one whose 15:32:
12 13 14 15	the document. Come on, Brian. It's a page and a half. We're not talking about him wasting 30 minutes to read a product manual. It's a page-and-a-half email. The witness	13 14 15 16	MR. NEUKOM: Objection. Foundation, vague, and calls for a legal conclusion. THE WITNESS: There was no one whose permission one could ask.
12 13 14 15 16	the document. Come on, Brian. It's a page and a half. We're not talking about him wasting 30 minutes to read a product manual. It's a page-and-a-half email. The witness has said he wants to read it, and we're going to let	13 14 15 16 17	MR. NEUKOM: Objection. Foundation, vague, and calls for a legal conclusion. THE WITNESS: There was no one whose permission one could ask. BY MR. FERRALL:
12 13 14 15 16 17	the document. Come on, Brian. It's a page and a half. We're not talking about him wasting 30 minutes to read a product manual. It's a page-and-a-half email. The witness has said he wants to read it, and we're going to let him read it.	13 14 15 16 17 18	MR. NEUKOM: Objection. Foundation, vague, and calls for a legal conclusion. THE WITNESS: There was no one whose 15:32: permission one could ask. BY MR. FERRALL: Q Well, I'll tell you, a Mr. Charles Hedrick at Rutgers submitted what I believe to be the first
12 13 14 15 16 17 18	the document. Come on, Brian. It's a page and a half. We're not talking about him wasting 30 minutes to read a product manual. It's a page-and-a-half email. The witness has said he wants to read it, and we're going to let him read it. THE WITNESS: Okay. I've read it.	13 14 15 16 17 18	MR. NEUKOM: Objection. Foundation, vague, and calls for a legal conclusion. THE WITNESS: There was no one whose permission one could ask. BY MR. FERRALL: Q Well, I'll tell you, a Mr. Charles Hedrick at Rutgers submitted what I believe to be the first
12 13 14 15 16 17 18 19	the document. Come on, Brian. It's a page and a half. We're not talking about him wasting 30 minutes to read a product manual. It's a page-and-a-half email. The witness has said he wants to read it, and we're going to let him read it. THE WITNESS: Okay. I've read it. BY MR. FERRALL: 15:29:28	13 14 15 16 17 18 19 20	MR. NEUKOM: Objection. Foundation, vague, and calls for a legal conclusion. THE WITNESS: There was no one whose permission one could ask. BY MR. FERRALL: Q Well, I'll tell you, a Mr. Charles Hedrick at Rutgers submitted what I believe to be the first RFC on the routing information protocol. 15:33:0
12 13 14 15 16 17 18 19 20 21	the document. Come on, Brian. It's a page and a half. We're not talking about him wasting 30 minutes to read a product manual. It's a page-and-a-half email. The witness has said he wants to read it, and we're going to let him read it. THE WITNESS: Okay. I've read it. BY MR. FERRALL: Q Okay. Did you send this email that's	13 14 15 16 17 18 19 20 21	MR. NEUKOM: Objection. Foundation, vague, and calls for a legal conclusion. THE WITNESS: There was no one whose permission one could ask. BY MR. FERRALL: Q Well, I'll tell you, a Mr. Charles Hedrick at Rutgers submitted what I believe to be the first RFC on the routing information protocol. Do you know Mr. Hedrick?
12 13 14 15 16 17 18 19 20 21	the document. Come on, Brian. It's a page and a half. We're not talking about him wasting 30 minutes to read a product manual. It's a page-and-a-half email. The witness has said he wants to read it, and we're going to let him read it. THE WITNESS: Okay. I've read it. BY MR. FERRALL: Q Okay. Did you send this email that's dated December 11, 2008, at 10:14 p.m.?	13 14 15 16 17 18 19 20 21 22	MR. NEUKOM: Objection. Foundation, vague, and calls for a legal conclusion. THE WITNESS: There was no one whose permission one could ask. BY MR. FERRALL: Q Well, I'll tell you, a Mr. Charles Hedrick at Rutgers submitted what I believe to be the first RFC on the routing information protocol. Do you know Mr. Hedrick? A 1 do.

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1	answered. 15:33:15		1	MR. NEUKOM: Objection. Compound, vague.	15:37
2	THE WITNESS: Mr. Hedrick formally		2	THE WITNESS: we did not make any such	
3	documented an informal standard that was already in		3	assertions.	
4	use in the industry for a number of years.		4	MR. NEUKOM: And foundation.	
5	BY MR. FERRALL: 15:33:27	ļ	5	BY MR. FERRALL: 15:37:08	
6	Q And what's the significance of that?		6	Q Did you ever have an agreement with	
7	MR. NEUKOM: Objection. Calls for		7	Mr. Rekhter about the right to use any of his	
8	speculation.		8	contributions to the BGP work that you guys did?	
9	THE WITNESS: It wouldn't have occurred to	1	9	MR. NEUKOM: Vague, compound, calls for a	
10	me to ask him for permission. 15:33:47		10	legal conclusion 15:37:44	
11	BY MR. FERRALL:		11	THE WITNESS: Could you	
12	Q I think you testified earlier that you	ļ	12	MR. NEUKOM: and mischaracterizes prior	
13	submitted several RFCs for the border gateway		13	testimony.	
14	protocol, correct?		14	THE WITNESS: Could you repeat the	
15	A Correct. 15:34:07		15	question, please? 15:37:59	
16	Q And your co-author on at least the first		16	BY MR. FERRALL:	
17	such RFC was a Mr. Yakov Rekhter, correct?		17	Q Sure, I'll ask a slightly different	
18	A Correct.		18	question.	
19	Q Was he your co-author on the subsequent		19	Did you ever ask permission from	
20	submissions, too, do you know? 15:34:3	1	20	Mr. Rekhter to use any of his contributions to the	15:38:6
21	A Certainly on the second one. I don't		21	BGP project?	
22	recall on the third one. And after that, there were		22	MR. NEUKOM: Objection. Vague, compound,	
23	other co-authors.		23	calls for a legal conclusion.	
24	O And where does Mr. Rekhter or did		24	THE WITNESS: We did not seek permission	
25	Mr. Rekhter work at the time? 15:34:5		25	•	:38:26
	Page 126			Page	
1	A He worked for IBM. 15:34:52		1	BY MR. FERRALL: 15:38:	30
2	Q What was Mr. Rekhter's contribution to the		2	Q Ohay. IBM didn't ask you for permission,	
3	BGP RFC? The first one?		3	either, correct?	
4	A We were co-designers.		4	A No.	
5	Q Are you able to describe what he 15:35:28		5	Q One of the CLI terms in this case is the	5:39:20
6	contributed as opposed to what you contributed?		6	term "IP address."	
7	A No. We worked closely together.		7	Are you familiar with that?	
8	Q Do you know whether you ever made any		8	A I'm familiar with the command expression	
9	declarations to the IETF concerning copyrights that		9	"IP address."	
10	Cisco claimed in any of the language in the first 15:35:	57			15;39;3
11	BGP RFC?		11	address"?	10,07,0
12	MR. NEUKOM: Objection. Vague, compound.		12	A When Cisco came out of Stanford, we were	
12	THE WITNESS: To the best of my		13	shipping an IP an Internet protocol only router.	
	THE WITHESS. TO the best of thy				
13	regularian wa made no convicts deline in the	- 1	L 4	And there was a command "address" that took some	
13 14	recollection, we made no copyright claims in the		1 0	organizate 15:40:10	
13 14 15	first BGP RFC. 15:36:17	1	15	arguments. 15:40:12	
13 14 15 16	first BGP RFC. 15:36:17 BY MR. FERRALL:	1	16	And after after a while, we started	
13 14 15 16	first BGP RFC. 15:36:17 BY MR. FERRALL: Q Did Cisco make any disclosures to the IETF	1 1 1	L6 L7	And after after a while, we started adding other protocols to the software. The first	
13 14 15 16 17	first BGP RFC. 15:36:17 BY MR. FERRALL: Q Did Cisco make any disclosures to the IETF regarding copyright claims in any of the BGP RFCs?	1 1 1	L6 L7 L8	And after after a while, we started adding other protocols to the software. The first one was "DECnet." And since "address" was already	
13 14 15 16 17 18	first BGP RFC. 15:36:17 BY MR. FERRALL: Q Did Cisco make any disclosures to the IETF regarding copyright claims in any of the BGP RFCs? MR. NEUKOM: Objection. Compound, vague.	1 1 1 1	16 17 18 19	And after after a while, we started adding other protocols to the software. The first one was "DECnet." And since "address" was already taken to refer to IP functionality, Internet	16.46
13 14 15 16 17 18 19 20	first BGP RFC. 15:36:17 BY MR. FERRALL: Q Did Cisco make any disclosures to the IETF regarding copyright claims in any of the BGP RFCs? MR. NEUKOM: Objection. Compound, vague. THE WITNESS: Not to my knowledge. 15:36:3	1 1 1 1 5 2	L6 L7 L8 L9	And after after a while, we started adding other protocols to the software. The first one was "DECnet." And since "address" was already taken to refer to IP functionality, Internet protocol functionality, we came up with "DECnet	15:40:
13 14 15 16 17 18 19 20 21	first BGP RFC. 15:36:17 BY MR. FERRALL: Q Did Cisco make any disclosures to the IETF regarding copyright claims in any of the BGP RFCs? MR. NEUKOM: Objection. Compound, vague. THE WITNESS: Not to my knowledge. 15:36:3: BY MR. FERRALL:	1 1 1 1 5 2	16 17 18 19 20	And after after a while, we started adding other protocols to the software. The first one was "DECnet." And since "address" was already taken to refer to IP functionality, Internet protocol functionality, we came up with "DECnet address," and then had a DECnet address after it.	15:40:
13 14 15 16 17 18 19 20	first BGP RFC. 15:36:17 BY MR. FERRALL: Q Did Cisco make any disclosures to the IETF regarding copyright claims in any of the BGP RFCs? MR. NEUKOM: Objection. Compound, vague. THE WITNESS: Not to my knowledge. 15:36:3: BY MR. FERRALL: Q Did you ever make a disclosure to the	1 1 1 1 5 2 2	16 17 18 19 20 21	And after after a while, we started adding other protocols to the software. The first one was "DECnet." And since "address" was already taken to refer to IP functionality, Internet protocol functionality, we came up with "DECnet address," and then had a DECnet address after it. That "DECnet address" command could have	15:40:
13 14 15 16 17 18 19 20 21	first BGP RFC. 15:36:17 BY MR. FERRALL: Q Did Cisco make any disclosures to the IETF regarding copyright claims in any of the BGP RFCs? MR. NEUKOM: Objection. Compound, vague. THE WITNESS: Not to my knowledge. 15:36:3: BY MR. FERRALL:	11 11 13 13 15 22 22 22	16 17 18 19 20 21 22	And after after a while, we started adding other protocols to the software. The first one was "DECnet." And since "address" was already taken to refer to IP functionality, Internet protocol functionality, we came up with "DECnet address," and then had a DECnet address after it. That "DECnet address" command could have very well have said "address," and then DECnet	15:40:
13 14 15 16 17 18 19 20 21	first BGP RFC. 15:36:17 BY MR. FERRALL: Q Did Cisco make any disclosures to the IETF regarding copyright claims in any of the BGP RFCs? MR. NEUKOM: Objection. Compound, vague. THE WITNESS: Not to my knowledge. 15:36:3: BY MR. FERRALL: Q Did you ever make a disclosure to the	11 11 13 13 13 13 22 22 22 22 22	16 17 18 19 20 21	And after after a while, we started adding other protocols to the software. The first one was "DECnet." And since "address" was already taken to refer to IP functionality, Internet protocol functionality, we came up with "DECnet address," and then had a DECnet address after it. That "DECnet address" command could have	15:40: 15:41:

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	address we were referring to. But we chose "DECnet 15:41	13 1	referring to? 15:44:36
2	address."	2	A That was the aesthetic choice I made.
3	It became clear that much more that we	3	MR. NEUKOM: Objection. Mischaracterizes
4	were becoming a multi-protocol router. We were	4	prior testimony.
5	adding other protocols into the box, into the 15:41:27	5	THE WITNESS: There were many possible 15:44:
6	software.	6	ways of doing it. As I indicated, I could perhaps
7	And I had I value I value the	7	take a look at an address and then infer what it
8	aesthetic of having a symmetric-looking command line	8	was. But that was not the choice that I made at the
9	expression, symmetric hierarchy. It was clear we	9	time.
10	were heading towards a hierarchy. 15:41:52	10	BY MR. FERRALL: 15:45:07
11	So at some point after DECnet and perhaps	11	Q What were the alternative commands that
12	a few other protocols to make things look very	12	you considered for "IP host"?
13	similar, we started prefacing our IP-only commands	13	A "Name." "Name" was certainly one of the
14	with "IP." And that gave a very what I thought	14	possible candidates. "Network system" or
15	was a very elegant, symmetric, elegant way of 15:42:16	15	"system" there are many, many words that one 15:45:5
16	referring to different protocols within a	16	could use to refer to all sorts of different things.
17	multi-protocol router.	17	Q Okay. But now you're talking about
18	So that is the history of the "IP address"	18	alternatives for the word "host," right?
19	command.	19	A Um-hum,
20	Q Okay. My question was simpler. I 15:42:36	20	Q Okay. You didn't you're not the first 15:46:08
21	appreciate that answer. But my question was a	21	one to use the word "host," are you?
22	little simpler than that, but let me ask it a	22	A No.
23	different way.	23	Q I mean, "host" had been used for well
24	You had heard of the term "IP address"	24	before you joined Cisco to refer to a computer host.
25	before you joined Cisco, hadn't you? 15:42:51	25	It's a conventional term, right? 15:46:29
	Page 130		Page 132
1	MR. NEUKOM: Objection. Vague and asked 15:42:	59 1	MR NEUKOM: Objection Vague, compound, 15:46:31
2	and answered.	2	foundation, and calls for opinion testimony
3	THE WITNESS: I suppose I had. When one	3	THE WITNESS: It was one of the
4	is talking about different networking protocols, one	4	possibilities that I had that I had
5	needs to clarify which networking protocol one is 15:43:10	5	BY MR FERRALL: 15:46:46
6	talking about. So it was probably terminology that	6	Q And "host" was the term that was used in
7	was in the air.	7	the commands in the software that came from
8	BY MR, FERRALL:	8	Stanford; is that right?
0		9	MR NEUKOM: Objection Mischaracterizes
0	Q Does the same go for "IP host," also? You		MR NEOROW. Objection Wischardcerizes
9	had been delicated and delicated at 15,42,20		prior togtimowy
10	had heard that before you joined Cisco? 15:43:29	10	prior testimony 15:47:13
10 11	MR. NEUKOM: Objection. Misstates prior	11	THE WITNESS: 1 had implemented the "host"
10 11 12	MR. NEUKOM: Objection. Misstates prior testimony.	11 12	THE WITNESS: 1 had implemented the "host" command while I was at Stanford
10 11 12 13	MR. NEUKOM: Objection. Misstates prior testimony. THE WITNESS: The original form of the	11 12 13	THE WITNESS: 1 had implemented the "host" command while I was at Stanford BY MR FERRALL:
10 11 12 13	MR. NEUKOM: Objection. Misstates prior testimony. THE WITNESS: The original form of the "host" command was just "host command." It was	11 12 13 14	THE WITNESS: 1 had implemented the "host" command while I was at Stanford BY MR FERRALL: Q Okay. And what did you so did you
10 11 12 13 14 15	MR. NEUKOM: Objection. Misstates prior testimony. THE WITNESS: The original form of the "host" command was just "host command." It was another one that had to distinguish, in a 15:43:41	11 12 13 14 15	THE WITNESS: 1 had implemented the "host" command while I was at Stanford BY MR FERRALL: Q Okay. And what did you so did you decide to use the word "host" for the command on the
10 11 12 13 14 15	MR. NEUKOM: Objection. Misstates prior testimony. THE WITNESS: The original form of the "hos!" command was just "host command." It was another one that had to distinguish, in a 15:43:41 multi-protocol world, in a multi-protocol piece of	11 12 13 14 15	THE WITNESS: 1 had implemented the "host" command while I was at Stanford BY MR FERRALL: Q Okay. And what did you so did you decide to use the word "host" for the command on the software you worked at while you were employed by
10 11 12 13 14 15 16 17	MR. NEUKOM: Objection. Misstates prior testimony. THE WITNESS: The original form of the "host" command was just "host command." It was another one that had to distinguish, in a 15:43:41 multi-protocol world, in a multi-protocol piece of software, what you were talking about.	11 12 13 14 15 16	THE WITNESS: 1 had implemented the "host" command while I was at Stanford BY MR FERRALL: Q Okay. And what did you so did you decide to use the word "host" for the command on the software you worked at while you were employed by Stanford?
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1	interface, and it would as a packet that was 16:12:12	1	the like, or "database lookup" or 16:16:59
2	being sent sent out that interface, it could	2	BY MR FERRALL:
3	either be permitted or denied going through that	3	Q Did you coin the term "domain lookup"?
4	interface.	4	A I decided to use that as a command
5	Those were the two original uses of the 16:12:29	5	expression within the software, yes 16:17:21
6	"access list" command expression.	6	Q I'll ask the question one more time. I'm
7	•	7	
8	Q Do you believe that you coined the term "access list"?	8	asking you if you coined the term "domain lookup." MR NEUKOM: Objection Asked and
		9	·
9	A It was my choice to use that description.	1	answered and vague
10	Q Well, I'm asking you if you coined that 16:12:5	ſ	THE WITNESS: I did not 16:17:43
11	term, or had you ever heard that term before in the	11	BY MR FERRALL:
12	context of networking?	12	Q Do you know who did?
13	MR. NEUKOM: Objection. Vague, compound,	13	A No idea
14	asked and answered.	14	Q When was to your knowledge, when was
15	THE WITNESS: I do not believe that I had 16:13:1		the term "routing" ever used in conjunction with the 16:18:
16	heard the term before.	16	Internet protocol?
17	BY MR. FERRALL:	17	MR NEUKOM: Objection Vague and
18	Q Had you heard the term "IP access group"	18	foundation
19	before?	19	THE WITNESS: I don't know when the term
20	A Yes. 16:13:25	20	"routing" was used 16:19:05
21	Q Who coined that term, to your knowledge,	21	BY MR FERRALL:
22	do you know?	22	Q Were people in the field talking about
23	A I did.	23	routing in connection with IP before you joined
24	Q Under what circumstances? Or for what	24	Cisco?
25	purpose, I should say? 16:13:39	25	MR NEUKOM: Objection Vague, compound 16:19:2
	Page 142		Page 144
1	A I don't remember the exact details, but it 16:13:52	1	THE WITNESS: Yes 16:19:27
2	is either assigns an access list to an interface	2	BY MR FERRALL:
3	or I think it assigns an interface to a an	3	Q Tell me what, if anything, was creative
4	access list to an interface. I believe it's access	4	about your decision to use the term "IP routing" as
5	class or something like that that assigns it to an 16:14:07	5	a CLI command. 16:19:51
6	interface or to a line number.	6	MR NEUKOM: Objection Calls for opinion
7	Q The term "domain name" is not a term that	7	testimony
8	-	8	-
	you made up, is it?	9	THE WITNESS: At Stanford where we had
9	A No, I didn't make I no, I did not.		terminal servers and gateways in the same software,
10	Q "Domain name" is a term that goes back to 16:15:3		there were times when it was convenient just 16:20:26
11	the ARPANET, actually. Are you aware of that?	11	because something had multiple interfaces, it could
12	MR. NEUKOM: Objection. Foundation.	12	still perhaps be a terminal server So I needed a
13	THE WITNESS: I would be unsurprised if it	13	way of turning off, disabling routing functionality
14	went back that far.	14	And I used the command I chose the
15	Are you referring to ARPANET protocols or 16:16:02	15	keyword configuration keyword command expression 16:21:
16	ARPANET network?	16	"routing" Then "no routing" would turn off routing
17	BY MR. FERRALL:	17	functionality in whatever software was running at
18	Q The ARPANET network.	18	the time despite its hardware configuration
19	A I believe the concept was introduced while	19	And then later on at Cisco, to keep the
20	the ARPANET network was still running. 16:16:15	20	keep the form of the hierarchy of commands, we added 16:21:35
21	Q What about the words "domain lookup"? Did	21	the we added our choice of we added "IP" in
22	you coin that term "domain lookup"?	22	front of it because you could potentially turn off
23	MR. NEUKOM: Objection. Vague.	23	other sorts of routing, or at least that was the
24	THE WITNESS: It's a parallel construction	24	that was the that was a possibility for other
24			
25	to terms like "address lookup" or "host lookup" or 16:16:52	25	network protocols 16:22:02

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1	BY MR. FERRALL: 17:55:19	1	interior routing protocols. And customer networks, 17:5
2	Q Mr. Lougheed, this is a document that	2	especially in the early days when they were attached
3	appears to be your work, according to the copyright	3	to the they had campus networks running one
4	notice on the front.	4	routing protocol, they'd be attached to the NSFNET
5	Do you see that? 17:55:29	5	backbone as well running a different routing 17:59:3
6	A Yes, I see that.	6	protocol.
7	Q Okay. Do you know when do you	7	And since routing protocols would give
8	recognize it?	8	incommensurate metrics, metrics that could not be
9	A Yes, I do.	9	compared, I developed a concept of distance that
10	Q What is it? 17:55:36	10	says if one routing protocol says it knows a route 18:00:
11	A It's a file called "globs.h." It is	11	to one destination and another routing protocol says
12	declaring a set of variables that are used in the	12	it knows a route to that same destination, which
13	software.	13	the routing protocol with the smallest
14	Q And when did you compose what's	14	administrative distance would be the one that would
15	Exhibit 42? 17:56:02	15	be entered into the routing table. 18:00:24
16	A Is there a question?	16	And so that was the problem, and my
17	Q Yes. I asked when did you compose	17	solution was the administrative distance mechanism
18	Exhibit 42?	18	that I described.
19	A Apparently June of 1985.	19	And when I implemented BGP, that was a
20		6: 28 20	natural extension to include for BGP as well to be 18:00
21	time, right?	21	able to configure an administrative distance to
22	A Correct.	22	determine the believability of BGP.
23	Q We had talked earlier about the ARP,	23	If no routing protocol if only one
24	address resolution protocol.	24	routing protocol knew the destination, you would
25	Do you remember that? 17:56:57	25	believe that. If there are two or more, 18:01:10
	Page 178	3	Page 180
1	A Yes, 17:56:58	1	administrative distance was the tie-breaker. 18:01:16
2	Q Okay.	1	
		1 2	
3		2 3	Q Sorry. I'm going to jump back to ARP.
3 4	A I remember you asked questions about that.	3	Q Sorry. I'm going to jump back to ARP. There's a term you use associated with
4	A I remember you asked questions about that.Q Are you familiar with there being a	3 4	Q Sorry. I'm going to jump back to ARP. There's a term you use associated with ARP, "ARP cache." We talked about that earlier in
4 5	A I remember you asked questions about that. Q Are you familiar with there being a provision for time-outs in the ARP protocol? 17:57:	3 4 15 5	Q Sorry. I'm going to jump back to ARP. There's a term you use associated with ARP, "ARP cache." We talked about that earlier in looking at one of the "clear" commands, right? 18:01
4 5 6	A I remember you asked questions about that. Q Are you familiar with there being a provision for time-outs in the ARP protocol? MR. NEUKOM: Objection. Vague and	3 4 15 5 6	Q Sorry. I'm going to jump back to ARP. There's a term you use associated with ARP, "ARP cache." We talked about that earlier in looking at one of the "clear" commands, right? Where did the term "ARP cache" come from?
4 5 6 7	A I remember you asked questions about that. Q Are you familiar with there being a provision for time-outs in the ARP protocol? MR. NEUKOM: Objection. Vague and compound.	3 4 15 5 6 7	Q Sorry. I'm going to jump back to ARP. There's a term you use associated with ARP, "ARP cache." We talked about that earlier in looking at one of the "clear" commands, right? Where did the term "ARP cache" come from? A The cache is a logically a list of
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4 5 6 7 8 9 10	A I remember you asked questions about that. Q Are you familiar with there being a provision for time-outs in the ARP protocol? MR. NEUKOM: Objection. Vague and compound. THE WITNESS: There is the ARP entries can become stale. If you unplug the computer or you move the computer somewhere else or you replace the network interface, entries will become stale.	3 4 15 5 6 7 8 9 7 43 10 11	Q Sorry. I'm going to jump back to ARP. There's a term you use associated with ARP, "ARP cache." We talked about that earlier in looking at one of the "clear" commands, right? Where did the term "ARP cache" come from? A The cache is a logically a list of items. An ARP cache would be a list of ARP requests that have been satisfied, including their MAC addresses and how long since the last time we'd seen a the router had seen an ARP request go by for
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4 5 6 7 8 9 10 11 12 13 14 15	A I remember you asked questions about that. Q Are you familiar with there being a provision for time-outs in the ARP protocol? MR. NEUKOM: Objection. Vague and compound. THE WITNESS: There is the ARP entries can become stale. If you unplug the computer or you move the computer somewhere else or you replace the network interface, entries will become stale. Implementing a time-out is a way of making sure the cache isn't stale. BY MR. FERRALL: Q Are you aware of there being a provision 17:58: for time-outs in the RFC for ARP?	7 43 10 11 12 13 14 10 15 16	Q Sorry. I'm going to jump back to ARP. There's a term you use associated with ARP, "ARP cache." We talked about that earlier in looking at one of the "clear" commands, right? Where did the term "ARP cache" come from? A The cache is a logically a list of items. An ARP cache would be a list of ARP requests that have been satisfied, including their MAC addresses and how long since the last time we'd seen a the router had seen an ARP request go by for that particular source address. That sort of computer science concept of a cache is found all over. Q One of the commands that is indicated that you authored is the command "boot system."
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		1	
1	Q How did you choose the term the words 18:13:	39 ₁	
2	"timers basic" for this function?	2	
3	A I don't remember where "basic" came from.	3	
4	But using the keyword "timers" was my was my	4	
5	introduction, was my creation. 18:14:00	5	
6	MR. NEUKOM: Counsel, I believe we're now	!	
7		6	
8	beyond seven hours. MR. FERRALL: Okay. Well, I given	7	I WINK I OHOUTED to be to the fortunal to
1		8	I, KIRK LOUGHEED, do hereby declare unde
9	Mr. Lougheed's tenure at Cisco, I thank him for his	9	penalty of perjury that I have read the foregoing
10	time, but I will say I think we deserve some more 18:14:22 time with him.	10	transcript; that I have made any corrections as
11		11	appear noted, in ink, initialed by me, or attached
12	But I understand seven hours is up and	12	hereto; that my testimony as contained herein, as
13	you're going to say enough is enough for today I	13	corrected, is true and correct.
14	take it; is that right?	14	EXECUTED this day of,
15	MR. NEUKOM: Certainly for today for the 18:14:31	15	2015, at,
16	sake of the witness. And we will respectfully	16	(City) (State)
17	disagree with the idea that counsel needs more than	17	
18	seven hours	18	
19	MR. FERRALL: Okay.	19	
20	MR. NEUKOM: needs more than today. 18:14:41		KIRK LOUGHEED
21	But we can discuss that for another day.	21	
22	In the meantime, I should note for the	22	
23	record the witness reserves the right to review the	23	
24	transcript and make corrections.	24	
25	Brian, I'm not sure I did that for 18:14:51	25	
	Page 186		Page 188
1	Mr. Tjong. If you're okay with it, I'd like to just 18:14:53	1	I, the undersigned, a Certified Shorthand
2	do a stipulation across the case that both sides	2	Reporter of the State of California, do hereby
3	have the 30-day review and errata right for all	3	•
4	transcripts regardless whether counsel puts it on	4	certify: That the foregoing proceedings were taken
5	the record at the depo as a two-way street. 18:15:04	5	before me at the time and place herein set forth;
6	MR. FERRALL: That's fine. I thought it	6	that any witnesses in the foregoing proceedings,
7	existed as a matter of procedure anyway. So that's	7	
8	fine.	8	prior to testifying, were administered an oath; that
9		9	a record of the proceedings was made by me using
10	MR. NEUKOM: 1 hope you're right, but glad to have the stipulation, even if it's unnecessary. 18:15:17		machine shorthand which was thereafter transcribed
10	MR. FERRALL: Okay.		under my direction; that the foregoing transcript is
12	MR. NEUKOM: Thanks very much.	11	a true record of the testimony given.
	· · · · · · · · · · · · · · · · · · ·	12	Further, that if the foregoing pertains to
13	THE VIDEO OPERATOR: This concludes	13	the original transcript of a deposition in a Federal
14	today's videotaped deposition of Mr. Kirk Lougheed.	14	Case, before completion of the proceedings, review
15	We're off the record at 6:15 p.m. Thank you. 18:15:2		of the transcript [X] was [] was not requested.
16	(TIME NOTED: 6:15 p.m.)	16	I further certify I am neither financially
17	000	17	interested in the action nor a relative or employee
18		18	of any attorney or any party to this action.
19		19	IN WITNESS WHEREOF, I have this date
20		20	subscribed my name.
21	T T T T T T T T T T T T T T T T T T T	21	5
22		22	Dated: 11/25/2015
23		23	
24		24	<%signature%>
25	7	25	CARLA SOARES
	Page 187		Page 189

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UNITED STATES DISTRICT COURT
 1
 2
                 NORTHERN DISTRICT OF CALIFORNIA
 3
                        SAN JOSE DIVISION
 4
      CISCO SYSTEMS, INC. Case No.: 5:14-cv-05344-BLF(PSG)
 5
                    Plaintiff,
 6
           v.
 7
      ARISTA NETWORKS, INC.
 8
                   Defendants.
 9
10
11
12
13
         * HIGHLY CONFIDENTIAL - ATTORNEYS' EYES ONLY *
            VIDEOTAPED DEPOSITION OF KIRK LOUGHEED
14
15
                     Palo Alto, California
                     Monday, April 4, 2016
16
17
                             Volume 2
18
19
20
21
      Reported by:
22
      LESLIE JOHNSON
23
      RPR, CSR No. 11451
24
      Job No.: 2285024
25
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                                                          Page 190
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HIGHET CONFIDENTIAL.	TITORILIO LILO ONLI
1 UNITED STATES DISTRICT COURT	1 INDEX
2 FOR THE NORTHERN DISTRICT OF CALIFORNIA	2 SHITNESS EVAMINATION
3 SAN JOSE DIVISION	3 WITNESS EXAMINATION 4 KIRK LOUGHEED
4	Volume 2
CISCO SYSTEMS, INC Case No : 5:14-cv-05344-BLF(PSG)	5
5	6 BY MR. WONG 197
Plaintiff,	7 8 EXHIBITS
6	9 KIRK LOUGHEED
7 v	10 NUMBER DESCRIPTION PAGE
ARISTA NETWORKS, INC	11 Exhibit 452 Copy of name badge; 1 page 198
8	12 Exhibit 453 Black and white copy of photograph; 198
Defendants	1 page
9	Exhibit 454 Patent Agreement; Bates stamped 208
10	14 KL-00000872 to 891
11	15 Exhibit 455 A Multiple Protocol Kernel for 228
12	Local Area Network Software Development Reference Manual; Bates
13	stainped KL-00000001 to 93
14 * HIGHLY CONFIDENTIAL - ATTORNEYS' EYES ONLY *	17
16	Exhibit 456 Document entitled "Chaosnet"; Bates 238 18 stamped KL-00000186 to 250
17 VIDEOTAPED DEPOSITION OF KIRK LOUGHEED, Volume 2,	19 Exhibit 457 Document entitled "Debugging 241
18 taken on behalf of Defendant, at 601 California Avenue,	Information"; Bates stamped
19 Palo Alto, California, beginning at 9:25 a m and ending	20 KL-0000564-654
20 at 4:37 p m, on Monday, April 4, 2016, before	21 Exhibit 458 DECnet Digital Network Architecture 244 (Phase V); Bates stamped
21 LESLIE JOHNSON, Certified Shorthand Reporter No 11451	22 KL-0000251 to 380
22	23 Exhibit 459 E-mail from Stanford Low Overhead 252
23	Timesharing; Bates stamped
24 25	24 KL-00001699 to 763 25
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1 APPRAIN AVERS	I EXHIBITS (Cont)
1 APPEARANCES:	2 KIRK LOUGHEED
2	3 NUMBER DESCRIPTION PAGE 4 Exhibit 460 E-mail dated 10-Jan-83 from Barb 260
3 FOR PLAINTIFF CISCO SYSTEMS, INC.:	at ISL to Computer Committee; Bates
4 QUINN EMANUEL URQUHART & SULLIVAN LLP	5 stamped KL-0000868 to 871 6 Exhibit 461 Stanford Ethertip/Gateway User and 263
5 BY: JOHN (JAY) NEUKOM, ESQ.	Configuration Guide; Bates stamped 7 CSI-CLI-01315367 to 97
6 50 California Street, 22nd Floor	7 CSI-CLI-01315367 to 97 8 Exhibit 462 Letter dated August 21, 1986 from 281
7 San Francisco, California 94111	Robert L. Street to Len Bosack; 9 Bates stamped CSI-CLI-01839502
8 (415)875-6600	9 Bates stamped CSI-CLI-01839502 to 504
9 johnneukom@quinnemanuel.com	10 Exhibit 463 E-mail dated 4/3/2006 from Kirk 298
10 FOR DEFENDANT ARISTA NETWORKS, INC.:	11 Lougheed to Vivian Neou; Bates
11 KEKER & VAN NEST LLP	stamped CSI-CLI-01124245
12 BY: RYAN WONG, ESQ.	Exhibit 464 Cisco's Amended Exhibit F; 44 pages 302
13 633 Battery Street	13 Exhibit 465 Software Unit External Functional 310
14 San Francisco, California 94111	14 Specification; Bates stamped
	CSI-CLI-00608751 to 752
15 (415)391-5400	Exhibit 466 ipsupport c miscellaneous IP 328
16 rwong@kvn.com	16 support code; 20 pages 17 Exhibit 467 Document entitled "Part 3: Media 332
17 ALSO PRESENT:	Access Control (MAC) Bridges";
18 SEAN GRANT, Videographer	18 Bates stamped ARISTANDCA00032440 to 812
19	19 Exhibit 468 Contents of "lip" directory; 1 page 348
20	20
21	Exhibit 469 Conunand 1 c ASM/AGS commands; 355 21 Bates stamped KL-SC-0000001 to 9
22	22 Exhibit 470 Config c parse and act upon 358
23	configuration commands; Bates 23 stamped KL-SC-0000010 to 20
24	24 Exhibit 471 Exec c ASM/AGS command level; 365
25	Bates stamped KL-SC-00000021 to 32
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	EXHIBITS (Cont.)		1 THE VIDEOGRAPHER: Thank you. Will the
	2 KIRK LOUGHEED		2 certified court reporter please swear in the
ł	3 NUMBER DESCRIPTION PAGE		3 witness.
	4 Exhibit 472 "cisco.c" source code; 1 page 371		4
	5 Exhibit 473 "stanford.c" source code; 1 page 371		KIRK LOUGHEED,
'	5 Exhibit 474 Source code; Bates stamped 375 KL-SC-00000033 to 41	- 1	6 having been administered an oath, was examined and
1		- 1	testified as follows:
'	Exhibit 475 Source code; Bates stamped 375	- 1	3
8			EXAMINATION (RESUMED)
1		- 1 1	BY MR. WONG:
	and Configuration Guide; Bates	11	
10		12	
11	* * *	13	-
12		1	
13		1	is a continuation of your personal deposition that
14		1	was taken back on November 20th, 2015?
15		16	,
16		17	, ,
17 18		- 1	testifying under oath as if you were testifying at
19			trial?
20		20	
21		21	
22		22	give full and truthful testimony today?
23		23	A. There is no reason.
24		24	Q. And are you generally still familiar with
25		25	the ground rules for a deposition?
	Page 195		Page 197
1	Palo Alto, California, Monday, April 4, 2016	1	A. Yes.
2	9:25 a.m.	2	Q. Okay. Well, I'll just repeat some of the
3		3	more important rules. If you need to take a break
4	THE VIDEOGRAPHER: Good morning. We're on		at any time, just let me know. And all I'd ask is
5	the record. The time is 9:25 a m., and the date is	1	that if there is a question pending, that you answer
	April 4th, 2016. This begins Volume 2 of the	1	it before we go on the break. Okay?
	videotaped deposition of Mr. Kirk Lougheed. My name	7	–
	is Sean Grant, here with our court reporter, Leslie	8	MR. WONG: Why don't we mark this as the
	Johnson. We're here from Veritext Legal Solutions	Į.	first exhibit for today.
	at the request of counsel for Defendant. This	10	(Exhibit 452 marked for identification.)
	deposition is being held at Wilson Sonsini in Palo	11	MR. WONG: And we will mark this one as
		1	the next exhibit.
	Alto, California. The caption of this case is		1
	"Cisco Systems Inc. versus Arista Networks Inc.,"	13	(Exhibit 453 marked for identification.)
	Case No. 5:14-cv-05344-BLF.	14	MR. NEUKOM: Ryan, I have two separate
15	Please note that audio and video recording	l	pieces of paper. Are you treating these as two
	will take place unless all parties have agreed to go	1	separate exhibits?
	off the record. Microphones are sensitive and may	17	MR. WONG: Yes. I'm going to give them
18	nick un whieners private convergations or cellular	i	two exhibit numbers and read them into the record in
	pick up whispers, private conversations or cellular	10	just a second.
	interference.	ſ	-
20	interference. At this time, will counsel please identify	20	The court reporter has marked as
20	interference.	20 21	The court reporter has marked as Exhibit 452 a photocopy photo bearing Bates Nos.
20	interference. At this time, will counsel please identify	20 21	The court reporter has marked as
20 21 22	interference. At this time, will counsel please identify themselves and state whom they represent.	20 21 22	The court reporter has marked as Exhibit 452 a photocopy photo bearing Bates Nos.
20 21 22	interference. At this time, will counsel please identify themselves and state whom they represent. MR. WONG: Ryan Wong from Keker & Van Nest	20 21 22 23	The court reporter has marked as Exhibit 452 a photocopy photo bearing Bates Nos. KL-00002202. The court reporter has also marked as
20 21 22 23 24	interference. At this time, will counsel please identify themselves and state whom they represent. MR. WONG: Ryan Wong from Keker & Van Nest for Defendant Arista Networks.	20 21 22 23 24	The court reporter has marked as Exhibit 452 a photocopy photo bearing Bates Nos. KL-00002202. The court reporter has also marked as Exhibit 453, a black and white photo with Bates Nos.
20 21 22 23 24	interference. At this time, will counsel please identify themselves and state whom they represent. MR. WONG: Ryan Wong from Keker & Van Nest for Defendant Arista Networks. MR. NEUKOM: John Neukom for the plaintiff	20 21 22 23 24	The court reporter has marked as Exhibit 452 a photocopy photo bearing Bates Nos. KL-00002202. The court reporter has also marked as Exhibit 453, a black and white photo with Bates Nos. KL-00002201.

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- 1 A. A type of computer manufactured by the
- 2 Digital Equipment Corporation.
- Q. And Digital Equipment Corporation is also
- 4 known as DEC, right?
- A. Correct.
- 6 Q. And did you work with these DEC VAX
- 7 super-minicomputers while an employee at Stanford?
- 8 A. One of the -- actually, at least two of
- 9 the systems programmers were the ones that were
- 10 primarily responsible for making sure that those
- 11 systems ran properly.
- 12 Q. Was Mr. Satz one of those systems
- 13 programmers that --
- 14 A. Yes.
- 15 Q. -- worked with the VAX system?
- 16 A. Yes.
- 17 Q. Is the answer the same for the VAX-11/750
- 18 super-minicomputers?
- 19 A. Yes.
- 20 Q. Did those VAX machines have a command-line
- 21 interface?
- 22 MR, NEUKOM: Objection. Vague.
- 23 BY MR. WONG:
- Q. Did the VAX-11/780 systems have a
- 25 command-line interface?

- 1 Q. And the first full sentence of that bullet
- 2 point says, "Supervised a computer science
- 3 department electronics design engineer in the
- 4 hardware debugging of a DEC-20 to ethernet
- 5 interface."
- 6 The next sentence says, "I also wrote the
- 7 interface's control microcode, the hardware
- 8 diagnostics, and the operating system support for
- 9 the device."
- 10 Do you see that?
- 11 A. I do.
- 12 Q. Is that referring to the EtherTIP
- 13 software?
- 14 A. No.
- 15 Q. What is that referring to?
- 16 A. That's referring to the Massbus-Ethernet
- 17 Interface Subsystem.
- 18 Q. And that's also reflected with the acronym
- 19 MEIS, correct?
- 20 A. Yes.
- 21 Q. Did Cisco use any of the software for the
- **22 MEIS?**
- 23 A. No.
- Q. Can you go to the page ending with Bates
- 25 No. 888 in Exhibit 454.

Page 223

Page 225

- 1 MR. NEUKOM: Objection. Vague.
- THE WITNESS: Yes.
- 3 BY MR. WONG:
- 4 Q. Were you familiar with how the VAX
- 5 command-line interface operated?
- 6 A. VAX is the name of a piece of hardware
- 7 that would run an operating system.
- Q. Thank you.
- 9 What is the operating system that the VAX
- 10 hardware ran?
- 11 A. At Stanford there were two possibilities,
- 12 something called VAX VMS, and there was also
- 13 Berkeley UNIX.
- 14 Q. Is Berkeley UNIX the same as BSD?
- 15 A. Yes.
- 16 Q. Were you familiar with the VAX VMS
- 17 command-line interface?
- 18 A. No.
- 19 Q. Were you familiar with the Berkeley UNIX
- 20 command-line interface?
- 21 A. Yes.
- Q. The last bullet point on the page ending
- 23 in 886 of Exhibit 454, do you see that? It starts
- 24 with "Supervised a computer science department."
- 25 A. Yes, I see that paragraph.

Page 224

- 1 A. Uh-huh. Yes. I'm on that page.
- 2 Q. The first bullet point, or I guess the
- 3 only bullet point on this page starts with "Acted as
- 4 Stanford contact."
- 5 Do you see that?
- 6 A. Yes, I see that paragraph.
- 7 Q. Is it true that you acted as Stanford
- 8 contact with DEC for field testing of two new
- 9 releases of the DEC-20 operating system?
- 10 A. Let me finish the paragraph so I can
- 11 establish context.
- 12 Q. Sure. Please take your time.
- 13 A. Okay. I've read the paragraph. Your
- 14 question is?
- 15 Q. Is it true you that you acted as the
- 16 Stanford contact with Digital Equipment Corporation
- 17 for field testing two new releases of the DEC-20
- 18 operating system?
- 19 A. Yes.
- Q. Is the DEC 20 operating system the same
- 21 thing as the TOPS-20 operating system?
- 22 A. Yes.
- 23 Q. Further down on this same page ending with
- 24 control numbers 888 on Exhibit 454, there's a
- 25 section called "Special Skills Knowledge or Training Page 226

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4 Q. And one sentence underneath that heading 5 says "Familiarity with the hardware and protocols 6 used in local area networks in (ethernet) and 7 long-haul national networks (ARPANET)." 8 Do you see that? 9 A. I see that sentence. 10 Q. Did I read that correctly? 11 A. You did. 12 Q. What protocols were you familiar with as 13 of May 6th, 1985 that were used in local area 14 networks? 15 A. There ethernet, even in 1985 had many, 16 many protocols. You could run PUP or Park Universal 17 Packet. You could run PCPIP. You could run XNS. 18 You could run by that time, pretty much any 19 network protocol would run on an ethernet. 20 Q. Was address resolution protocol at that was used in local area networks? 21 A. On ethernets, yes. 22 A. On ethernets, yes. 23 Q. You can put that document aside. 24 MR. WONG: 25 Exhibit 455, please. 4 it's not hypothetical. 5 BY MR. WONG: 6 Q. Did you obtain the document marked as 2 Exhibit 455 before you left Stanford in July of 8 1986? 9 A. I believe so. 10 Q. Do you remember if you obtained the 11 document marked as Exhibit 455 directly from 12 Mr. Yaeger? 13 A. I have no memory of now I actually 14 obtained this document. 15 Q. Were documents strike that. 16 Was the document marked as Exhibit 455 17 available for you to get, besides going directly 18 through Mr. Yaeger? 19 MR. NEUKOM: Objection. Vague. 20 THE WITNESS: I don't have a memory of ho 21 I actually obtained it. I these such 22 documents were certainly easily obtainable at 23 Stanford University. 24 BY MR. WONG: 25 Exhibit 455, please.		THOME TOO WEET WITH		
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25 July of 1986? 25 Q. Were you familiar with how the command	24		24	A. At one point I certainly was,
	1	•	25	

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- 1 Q. And was Exhibit 456 a document that was in 2 your personal files?
- 3 A. Yes, it was.
- 4 Q. Okay. And why did you have this CHAOS net
- 5 document marked as Exhibit 456 in your personal 6 files?
- 7 A. Because in 1987, at the request of some
- 8 customers, we added CHAOS net to the Cisco router
- 9 software. A consultant named Eric Weaver actually
- 10 did the -- I believe it was Eric Weaver did the
- 11 actual implementation in the Cisco software. He was
- 12 a contractor for us.
- 13 Q. Okay. So your possession of the document
- 14 marked as Exhibit 456 was in connection with work
- 15 that Cisco did with respect to CHAOS net?
- 16 A. Correct. I suspect this was the document
- 17 I handed him to say I want this in the router.
- 18 Q. Did you ever read the document marked as
- 19 Exhibit 456 before you handed it to Mr. Weaver?
- 20 A. I may have.
- Q. Can you turn to page 17 of Exhibit 456.
- 22 The control number at the bottom ends in 206. Let
- 23 me know when you're there, please.
- 24 A. Okay. I'm on page -- page 17 of the CHAOS 25 net document.

- 1 Q. Did you come up with the term "flow 2 control"?
- 3 A. No. You're doing a bit of random word 4 matching.
- 5 Q. Yes. Random questioning is definitely my 6 style.
 - You can set that document aside.
- MR. WONG: Let's mark this one as the next 9 exhibit, please.
- 10 (Exhibit 457 marked for identification.)
- 11 BY MR. WONG:

7

- 12 Q. The court reporter has marked as
- 13 Exhibit 457 a document bearing control numbers
- 14 KL-00000564 to 654.
- 15 And Mr. Lougheed, take your time to look 16 at Exhibit 457. But my question to you is, do you
- 17 recognize the document marked as Exhibit 457?
- 18 A. There is no title to this document, other
- 19 than Chapter 1. It appears to be -- have to do with
- 20 DEC-20 hardware. So I don't -- I do not recognize
- 21 where this document came from.
- 22 Q. Okay. I'll represent to you that this
- 23 document was produced to us without a cover page.
- 24 So this is -- this is the document that was produced 25 to us.

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1

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- 1 Q. And the first -- strike that. At the top
- 2 of this page ending in control numbers 206 of
- 3 Exhibit 456, it says "3.8 Flow and Error Control."
- 4 Do you see that?
- 5 A. Yes.
- 6 Q. Do you understand what flow control is,
- 7 Mr. Lougheed?
- 8 A. In a general sense.
- 9 Q. Can you please explain to me what flow
- 10 control means in a general sense.
- 11 A. How you put packets onto the network and
- 12 what speed, rate that you -- and under what
- 13 conditions you put the packets onto the network.
- 14 That's my general understanding. I'm not sure ---
- 15 every protocol has its own nuances, so -- and I have
- 16 not read the rest of this page, so . . .
- 17 Q. Understood.
- When you say every protocol has its own
- 19 nuances, do you mean that every protocol has its own
- 20 nuances for flow control?
- 21 A. Pretty much.
- 22 Q. When was -- strike that.
- 23 Do you know when the term "flow control"
- 24 was first used in the networking industry?
- 25 A. No.

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- Do you have any doubt that this document
- 2 was in your personal files that you handed over to
- 3 Cisco's counsel?
- 4 A. I don't doubt that.
- 5 Q. Do you know when you came into possession
- 6 of the TOPS-20 document marked as Exhibit 457?
- 7 A. Probably while I was working at Stanford,
- 8 if this indeed came from the contents of the boxes
- 9 in my garage.
- 10 Q. Mr. Lougheed, did you give the documents
- 11 that were in your garage to your counsel after the
- 12 first deposition took place?
- 13 A. There were -- yes.
- 14 Q. Was there anything else besides documents
- 15 that were stored in your garage that you provided to
- 16 your counsel after the first deposition of you?
- 17 Anything besides paper documents that you found in
- 18 your garage? Did you provide any other documents to
- 19 your counsel after your first deposition?
- 20 A. Just paper documents.
- 21 Q. Did you have -- strike that.
- While you were working at Stanford and
- 23 before you left to join Cisco in July of 1986, did
- 24 you have TOPS-20 user manuals in your possession?
- 25 MR. NEUKOM: Objection. Vague.

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- 1 A. Yes. 2 Q. Do you know when a spanning tree is? 3 A. Yes, I do. 4 Q. What is a spanning tree? 5 A. A spanning tree is a --6 MR. NEUKOM: Objection. Calls for 7 opinion. THE WITNESS: It's a graph imposed on the 9 network to ensure that packets that are being 10 bridged do not get into loops as they are being 11 transmitted by bridges. 12 BY MR. WONG: 13 Q. And is that the function that is served by 14 a spanning tree? MR. NEUKOM: Objection. Calls for opinion 16 testimony, and the question is phrased in the 17 hypothetical or abstract. 18 BY MR. WONG: Q. Let me ask the question differently, 20 Mr. Lougheed. 21 What is the function served by a spanning 22 tree? 23 MR. NEUKOM: Same objections. 24 THE WITNESS: The spanning tree is 25 essentially a data structure -- in effect is a data Page 251 1 structure that allows bridges and other things that 2 forward at the MAC layer -- it tells them which 3 ports they should not forward packets on. 4 BY MR. WONG: 5 Q. When did first hear of the term "spanning 6 tree"? A. During my -- during Cisco. Probably late 8 '80s. 9 Q. You can set that document aside. 10 MR. WONG: Let's have that marked as the 11 next exhibit, please. 12 (Exhibit 459 marked for identification.) 13 BY MR. WONG: Q. The court reporter has marked as 15 Exhibit 459 a document bearing control numbers 16 KL-00001699 to 1763. 17 Mr. Lougheed, please take a moment to look
- 1 O. And the Stanford low overhead 2 time-sharing, is that also -- does that also use the 3 acronym LOTS? A. Yes. 5 Q. If you turn to the first page of 6 Exhibit 459, the Bates number ends in 1700. Let me 7 know when you're there. 8 A. Okay. Q. There is a -- I guess this is an e-mail at 10 the top of the page ending in Bates Nos. 1700, 11 correct? Is that an e-mail at the top of the page 12 ending in Bates No. 1700? 13 A. Yeah. 14 Q. And there's a CC there to b.bombadil? Do 15 you see that? A. Right. 16 17 Q. Is that your e-mail address? A. That was my -- that was my user ID at the 18 19 LOTS computer facility. Q. Okay. So where "b.bombadil" appears in 20 21 Exhibit 459, that is your user ID, correct? 22 A. Correct. 23 Q. What does the "B" stand for for the 24 b.bombadil? 25 A. So in the -- in 1976, when they set up the Page 253 1 student computing facility, they needed to support 2 several thousand users, and the operating system had 3 a limitation that it could only support some number 4 smaller than the total number of students. So what 5 they did was they created top level directories A 6 through Z, and then the dot indicates that there is 7 a subdirectory or, you know, a subuser of that. So 8 everybody's user ID had the initial letter, dot 9 username. 10 Q. Understood. I was wondering why it wasn't 11 T. Bombadil. But I'm assuming the Bombidel refers 12 to --13 A. The Tolkien character. 14 Q. Yes. 15 THE REPORTER: To what character? 16 THE WITNESS: Tolkien. As in Lord of the 17 Rings. Or actually, as in the Hobbit. No. 18 Actually, it's Lord of the Rings. 19 BY MR. WONG: 20 Q. I think it's Lord of the Rings. A. What can I say? I was an undergraduate. 21 22 I was stuck with that same username. 23 Q. I would have chosen Radagast.

18 at Exhibit 459 and let me know -- well, and my first

19 question to you will be, do you recognize

20 Exhibit 459?

21 A. Yes.

22 Q. And what is Exhibit 459?

A. It's a computer listing of my e-mail while

24 I was working at the Stanford low overhead

25 time-sharing.

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Are you aware of the e-mail alias at Cisco 25 called Clueless@Cisco.com?

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24

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1 BY MR. WONG: Q. When you added the "ip access-group" Q. Can access lists be associated with 2 command, did you consider using a different term 3 other than "IP"? 3 different routing protocols? A. I do not recall whether we had switched A. Yes. 5 MR. NEUKOM: Objection. Calls for opinion 5 everything to the IP's hierarchy then. I'd have to 6 testimony. 6 refer to the documentation to see whether or not we 7 BY MR. WONG: 7 actually had an IP hierarchy or whether we assumed 8 Q. Yes, right? 8 everything was IP. A. We have implemented such in the past. Q. I understand. If there had been an IP 10 Q. What other routing protocols have -- for 10 hierarchy already implemented at the time you added 11 the "ip access-group" command would you have 11 what -- strike that. 12 For what other routing protocols have you 12 considered any other term besides "IP" in the "ip 13 implemented access lists? 13 access-group" command? A. I'll have to think carefully about this. 14 MR. NEUKOM: Objection. Calls for 15 XNS, Banyan VINES, I believe. I'd have to go refer 15 speculation, and the question poses a hypothetical. 16 to the Cisco documentation, but I know that we did THE WITNESS: I could have perhaps 16 17 have access lists for a number of network protocols. 17 inverted the hierarchy. I'm sorry. The question is 18 MR. WONG: Just for the court reporter's 18 again? 19 knowledge, did you say Banyan VINES? 19 BY MR. WONG: THE WITNESS: Banyan VINES. B-A-N-Y-A-N. 20 Q. You testified that you weren't sure 21 and then VINES, as in --21 whether or not there had been an IP hierarchy 22 22 implemented at the time you added this "ip MR. NEUKOM: Red vines. 23 THE WITNESS: As in red vines. Okay. 23 access-group" command? 24 24 BY MR. WONG: A. Right. 25 25 Q. As in a banyan tree? Q. Assuming you checked and there was already Page 315 Page 317 1 A. A banyan tree. 1 an IP hierarchy in existence when you added the "ip Q. So the "IP" word in the "ip access-group" 2 access-group" command, would you have changed the 3 command is meant to indicate that the access groups 3 first word to be anything other than "IP"? 4 are for the IP protocol, correct? A. Given that I had made the -- made the A. It is an indication that that command 5 choice of "IP" as the keyword indicating Internet 6 applies to the IP -- into the IP hierarchy of the 6 protocol-related stuff, I would have felt 7 interface command. 7 constrained to use that as the leading keyword. Q. So if you were implementing access groups 8 Otherwise, it would be a seemingly asymmetric 9 for the XNS protocol, it would be "XNS 9 construction in the hierarchy. 10 access-group," right? Q. How long did it take you to come up with 11 A. Yes. 11 the ""ip access-group"" command syntax? 12 Q. Have you had -- strike that. A. Not very long. All I needed was some sort 13 Did you come up with the term "access 13 of keyword that had "access" in it and something 14 group" in 1989? 14 after it to distinguish it between class and list. 15 A. That was the command expression I chose. 15 And as I said earlier, that was the best I could Q. Well, was it the first -- had you heard of 16 come up with that day. I wasn't necessarily 17 the term "access group" at the time that you added 17 terribly happy about it. It was not a terribly 18 this command to the Cisco IOS? 18 descriptive command, as far as I was concerned. 19 A. No, I hadn't. I had previously 19 Q. When you say "not very long," are you 20 implemented an "access class" command associated 20 talking about a matter of minutes? 21 for associating an access list with a terminal line. 21 A. Yep. 22 And I needed something to associate it with an 22 Q. How long -- did you write the source code 23 interface. And I was -- I just needed something 23 for the "ip access-group" command? 24 different. And that was the best I could come up 24 A. For the original, yes. 25 with that day. 25 Q. How long did it take you to write the Page 316

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		1	
	source code for the original "ip access-group"	1	
	command?	1	2 industry-standard term defined either on OSI or the
3		3	B IEEE?
4	been part of writing the entire functionality of	4	, E
5	, ,		opinion.
1 _	order of a day.	1	5 BY MR. WONG:
7	1 0	7	
1	Let me know when you're there.	8	
9	, , ,	9	
10	1	10	
11		11	,
12	•	· ·	your knowledge, already started using the term "MAC
13			address"?
14	• •	14	
15		15	` ' '
16		16	2 , 1
17	Q. How do you know that you're the originator		the syntax for the "mac-address" command?
1	of the "mac-address" command?	18	
19	A. I remember the problem that I was solving		was less than a day.
1	that I needed that sort of functionality.	20	
21	Q. What was the problem that you were trying	21	1 7
1	to solve by the "mac-address" command?	22	` ;
23	A. I needed to send packets on a serial line	1	source code for the functionality associated with
1	that actually which a serial line does not have	1	the "mac-address" command?
23	MAC addresses, but I needed to somehow get a MAC Page 319	25	A. It was probably the same day. Page 321
-	Tugo 517		_
1	address associated with that particular serial line.	1	
2	Q. Was that related to a client request?	2	without the hyphen between "mac" and "address"?
3	A. Yes. I don't remember the exact customer	3	A. Stylistically, I prefer dashes as opposed
4	or the details to it.		to cramming the words together. I like commands
5	Q. Do you remember if the customer suggested	1	that have an English-like flavor to them. And I
6	you calling the command "mac-address"?	6	detest periods in commands and underscores. So this
7	A. I don't remember if the customer suggested	7	was
8	anything in that particular in that particular	8	Q. Did you ever consider two let me strike
i	instance.		that.
10	Q. And is the function of the "mac-address"	10	Do you know what a token is in the context
1	command to associate a MAC address with a particular		of a command?
	serial line?	12	A. Yes.
13	A. It could be a serial line. It could be	13	Q. Did you ever consider a command syntax of
1	actually any interface. It would depend what		"mac address"?
1	protocols are running across the interface as to	15	A. I don't recall if I did.
1	what it would do.	16	Q. What impact would it have, if any, on the
17	Q. And what is strike that.		user if strike that.
18	The MAC part of the words "mac-address,"	18	Would the CLI behave differently if the
1	that refers to media access control, correct?	19	command was "mac address," as opposed to
20	A. Yes.		"mac-address"?
21	Q. And we talked about that media access	21	MR. NEUKOM: Objection. Hypothetical
1	control being a layer defined by OSI, correct?		question.
23	A. I think we were wondering whether it was	23	THE WITNESS: Well, it behaves differently
1	OSI or IEEE.		in that instead of one token, there's two tokens.
25	Q. Thank you.	25	So there would be that.
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	HIGHLY CONFIDENTIAL	- ATTORNEYS' EYES ONLY
	but for different protocols, then it was a very easy	I BY MR. WONG:
	generalization.	2 Q. The court reporter has marked Exhibit 467,
	· · · · · · · · · · · · · · · · · · ·	3 a document bearing control numbers
2		4 ARISTANDCA00032440 to 32812.
	5 that, yes.	5 And my only question for you,
1		6 Mr. Lougheed, on this document marked as Exhibit 467
1	command "show ip route"?	7 is, is this one of the ANSI/IEEE standards that
8	•	8 defines a spanning tree?
9		9 MR. NEUKOM: Objection. Vague. Also
10		10 calls for opinion testimony. And to the extent that
ļ	I originally needed some way of saying what I	11 you can find a way to answer this question insofar
T T	needed was a way of indicating to the software that	12 as the task is an assessment of a document which is
1	if I had a packet destined for a particular network,	13 double-sided, still over an inch thick, and appears
- 1	which is the first argument, that I send it to a	14 to have
	particular IP address, which is the IP address of a	15 THE WITNESS: 10-point font.
- 1	router. And one of those list of network and router	16 MR. NEUKOM: And appears to have about 350
L	pairs may actually be the default, if I didn't find	17 pages. And that's right, size 6 font, size 8 font.
- F	a network mentioned anywhere and couldn't figure out	18 It's an unreasonable question on its face.
- 1	what to do with it. Otherwise, send it to this	19 BY MR. WONG:
- 1	particular router or gateway. Those are the pieces	20 Q. Let me ask it this way, Mr. Lougheed.
1	of information that I needed, and I just I chose	21 At the top of page 467, top right, you see
1	the name "route." And "IP route" came along	22 it says "1998 edition," right?
Í	afterwards.	23 A. Yes.
	BY MR. WONG;	24 Q. Have you seen IEEE/ANSI standards before?
25	Q. Are you the originator of the "show	25 A. Yes.
1 40	Q. The journe originator of the show	
	Page 331	Page 333
1	Page 331	Page 333
- 1	Page 331 spanning-tree" command?	Page 333 1 Q. From the first page of Exhibit 467, do you
2	spanning-tree" command? A. Yes, I am.	Page 333 1 Q. From the first page of Exhibit 467, do you 2 have any reason to doubt that this is an IEEE
- 1	Page 331 spanning-tree" command? A. Yes, I am. Q. What is a spanning tree?	Page 333 1 Q. From the first page of Exhibit 467, do you 2 have any reason to doubt that this is an IEEE 3 standard?
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3 4	Page 331 spanning-tree" command? A. Yes, I am. Q. What is a spanning tree? A. My testimony earlier in the day addresses that question. Q. So thank you.	Page 333 1 Q. From the first page of Exhibit 467, do you 2 have any reason to doubt that this is an IEEE 3 standard? 4 MR. NEUKOM: Objection. Vague. Calls for 5 opinion testimony. And lack of foundation. 6 THE WITNESS: I'm willing to accept the
2 3 4 5 6 7	Page 331 spanning-tree" command? A. Yes, I am. Q. What is a spanning tree? A. My testimony earlier in the day addresses that question. Q. So thank you. And your explanation of what is a spanning	Page 333 1 Q. From the first page of Exhibit 467, do you 2 have any reason to doubt that this is an IEEE 3 standard? 4 MR. NEUKOM: Objection. Vague. Calls for 5 opinion testimony. And lack of foundation. 6 THE WITNESS: I'm willing to accept the 7 assertion that it's an IEEE standard.
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2 3 3 4 4 5 5 6 7 7 8 8 9 10 11 12 13 14 15 16 17 18 19 20	spanning-tree" command? A. Yes, I am. Q. What is a spanning tree? A. My testimony earlier in the day addresses that question. Q. So thank you. And your explanation of what is a spanning tree earlier in today's deposition would be the same for my question regarding the "show spanning-tree" command; is that correct? A. Right. Q. And what functionality does the "show spanning-tree" command perform? A. It displayed global parameters having to do with the spanning tree and interface-specific parameters having to do with the spanning tree on the box. Q. And the term "spanning tree," you didn't come up with that, right, Mr. Lougheed? A. No, I didn't.	Page 333 1 Q. From the first page of Exhibit 467, do you 2 have any reason to doubt that this is an IEEE 3 standard? 4 MR. NEUKOM: Objection. Vague. Calls for 5 opinion testimony. And lack of foundation. 6 THE WITNESS: I'm willing to accept the 7 assertion that it's an IEEE standard. 8 BY MR. WONG: 9 Q. Had you ever reviewed the ANSI/IEEE 10 standard 802.1D 1998 edition? 11 A. I have never reviewed the 1998 edition of 12 IEEE 802.1D. 13 Q. Have you ever reviewed any other editions 14 of 802.1D? 15 A. A much earlier version. 16 Q. In that much earlier you can set that 17 down, Mr. Lougheed. 18 In that earlier version of 802.1D, do you 19 recall whether the standard used the term "spanning 20 tree"?
2 3 3 4 4 5 5 6 7 8 8 9 10 11 12 13 14 15 16 17 18 19 20 21	spanning-tree" command? A. Yes, I am. Q. What is a spanning tree? A. My testimony earlier in the day addresses that question. Q. So thank you. And your explanation of what is a spanning tree earlier in today's deposition would be the same for my question regarding the "show spanning-tree" command; is that correct? A. Right. Q. And what functionality does the "show spanning-tree" command perform? A. It displayed global parameters having to do with the spanning tree and interface-specific parameters having to do with the spanning tree on the box. Q. And the term "spanning tree," you didn't come up with that, right, Mr. Lougheed? A. No, I didn't. Q. The term "spanning tree" is used in	Page 333 1 Q. From the first page of Exhibit 467, do you 2 have any reason to doubt that this is an IEEE 3 standard? 4 MR. NEUKOM: Objection. Vague. Calls for 5 opinion testimony. And lack of foundation. 6 THE WITNESS: I'm willing to accept the 7 assertion that it's an IEEE standard. 8 BY MR. WONG: 9 Q. Had you ever reviewed the ANSI/IEEE 10 standard 802.1D 1998 edition? 11 A. I have never reviewed the 1998 edition of 12 IEEE 802.1D. 13 Q. Have you ever reviewed any other editions 14 of 802.1D? 15 A. A much earlier version. 16 Q. In that much earlier you can set that 17 down, Mr. Lougheed. 18 In that earlier version of 802.1D, do you 19 recall whether the standard used the term "spanning 20 tree"? 21 MR. NEUKOM: Objection. Vague. I'm
2 3 3 4 4 5 5 6 7 8 9 100 111 122 13 144 15 166 17 18 19 20 21 22	spanning-tree" command? A. Yes, I am. Q. What is a spanning tree? A. My testimony earlier in the day addresses that question. Q. So thank you. And your explanation of what is a spanning tree earlier in today's deposition would be the same for my question regarding the "show spanning-tree" command; is that correct? A. Right. Q. And what functionality does the "show spanning-tree" command perform? A. It displayed global parameters having to do with the spanning tree and interface-specific parameters having to do with the spanning tree on the box. Q. And the term "spanning tree," you didn't come up with that, right, Mr. Lougheed? A. No, I didn't. Q. The term "spanning tree" is used in ANSI/IEEE standards, correct?	Page 333 1 Q. From the first page of Exhibit 467, do you 2 have any reason to doubt that this is an IEEE 3 standard? 4 MR. NEUKOM: Objection. Vague. Calls for 5 opinion testimony. And lack of foundation. 6 THE WITNESS: I'm willing to accept the 7 assertion that it's an IEEE standard. 8 BY MR. WONG: 9 Q. Had you ever reviewed the ANSI/IEEE 10 standard 802.1D 1998 edition? 11 A. I have never reviewed the 1998 edition of 12 IEEE 802.1D. 13 Q. Have you ever reviewed any other editions 14 of 802.1D? 15 A. A much earlier version. 16 Q. In that much earlier you can set that 17 down, Mr. Lougheed. 18 In that earlier version of 802.1D, do you 19 recall whether the standard used the term "spanning 20 tree"? 21 MR. NEUKOM: Objection. Vague. I'm 22 pretty sure if that document uses the word
2 3 3 4 4 5 5 6 7 8 8 9 10 11 12 13 14 15 16 17 18 19 20 21	spanning-tree" command? A. Yes, I am. Q. What is a spanning tree? A. My testimony earlier in the day addresses that question. Q. So thank you. And your explanation of what is a spanning tree earlier in today's deposition would be the same for my question regarding the "show spanning-tree" command; is that correct? A. Right. Q. And what functionality does the "show spanning-tree" command perform? A. It displayed global parameters having to do with the spanning tree and interface-specific parameters having to do with the spanning tree on the box. Q. And the term "spanning tree," you didn't come up with that, right, Mr. Lougheed? A. No, I didn't. Q. The term "spanning tree" is used in	Page 333 1 Q. From the first page of Exhibit 467, do you 2 have any reason to doubt that this is an IEEE 3 standard? 4 MR. NEUKOM: Objection. Vague. Calls for 5 opinion testimony. And lack of foundation. 6 THE WITNESS: I'm willing to accept the 7 assertion that it's an IEEE standard. 8 BY MR. WONG: 9 Q. Had you ever reviewed the ANSI/IEEE 10 standard 802.1D 1998 edition? 11 A. I have never reviewed the 1998 edition of 12 IEEE 802.1D. 13 Q. Have you ever reviewed any other editions 14 of 802.1D? 15 A. A much earlier version. 16 Q. In that much earlier you can set that 17 down, Mr. Lougheed. 18 In that earlier version of 802.1D, do you 19 recall whether the standard used the term "spanning 20 tree"? 21 MR. NEUKOM: Objection. Vague. I'm

Page 334 37 (Pages 331 - 334)

Page 332

25 ////

25 mischaracterization of the document.

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	HIGHLY CONFIDENTIAL	- A	I TORNEYS' EYES ONLY
	1 BY MR. WONG:	1	MR. NEUKOM: Objection. Calls for opinion
	Q. Please answer.	2	testimony.
	3 A. What's your question again?	3	
- 1	4 Q. Sure. In the earlier version of the		mean by the word "creative."
i i	5 802.1D standard that you have reviewed strike	1	BY MR. WONG:
1	5 that.	6	
		ı	creativity to come up with the command "show
	You just testified that you had reviewed an earlier version of the 802.1D standard earlier	8	
į.	than the 1998 edition, right?	9	
10	•	1	opinion testimony. Also calls for a legal
11		1	conclusion.
-	that version of the 802.1D standard was?	12	
13	•	1	should still try to answer these questions to the
14	reviewed something like that would have been '87 or	14	best of your ability.
15	5 '88.	15	THE WITNESS: And the question is?
16	Q. And in your review of that version of the	16	BY MR. WONG:
17	802.1D standard that you would have reviewed in 1987	17	
18	or '88, do you recall whether the word "spanning	18	to come up with the command "show spanning-tree"?
19	tree" existed in that document?	19	
20	A. No, I don't recall if that word appeared	20	creativity.
21	there.	21	Q. And describe go ahead.
22		22	A, I mean
- 1	spanning-tree" command for Cisco IOS, had you heard	23	Q. Were you done with your answer?
	of the term "spanning tree" before that?	24	A. Yes.
25	-	25	Q. And what is creative about the command
23	Page 335	23	Page 337
1	Q. And why did you choose to put a hyphen	1	"show spanning-tree"?
	between the words "spanning" and "tree"?	2	MR. NEUKOM: Objection. Calls for a legal
3		1	conclusion and calls for opinion testimony.
Į.	separating them with dashes.	4	THE WITNESS: And I just I'm not sure
1			what the hell you mean by "creative."
5		1	BY MR. WONG:
6	S	l _	
7		7	Q. Have you do you know what the word
8		1	"creative" means?
9		9	What do you understand the word "creative"
	time that I would need to turn that into a	1	to mean? The question is, what do you understand
	hierarchy.	I	the word "creative" to mean?
12		12	MR. NEUKOM: Objection to form.
	turn it into a hierarchy, are you referring to the	13	THE WITNESS: It's the ability to create
	option of using a space instead of a hyphen in		things. And I was creating a command expression to
15	between the word "spanning" and "tree"?	15	monitor a piece of complex software.
16	A. Yes.	16	What do you mean by "creative"?
17	Q. How long did it take for you to come up	17	BY MR. WONG:
18	with the command "show spanning-tree," the syntax?	18	Q. I'm going to use your definition of
19	A. The syntax? Once I had the protocol	19	creative here, Mr. Lougheed. Under your definition
1:	working, wouldn't have been very long.		of "creative," what's creative about the "show
21	Q. Matter of minutes?	i	spanning-tree" command?
22	A. Less than a day.	22	MR. NEUKOM: Objection. Calls for opinion
23	Q. Do you think the command "show		testimony and calls for a legal conclusion.
	spanning-tree" is creative?	24	THE WITNESS: Writing any piece of
25	A. I don't understand.		software involves some degree of creativity. It may
23	A. 1 don't understand. Page 336	43	Page 338
L	1 450 550		1 480 330

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- Q. And actually, if you look on that same 1 Q. Do you have to --2 page, page 42 of Exhibit 464, the command right A. It's either "routing-protocol" or 3 above it is "timers basic (RIP)." 3 "router." The command form changed in that time 4 Do you see that? 5 A. Uh-huh. 6 Q. And you are also the originator of that 7 command, correct? 8 A. Yes. 9 Q. And the date of earliest known document 10 for that command is September 14th, 1989. 11 Do you see that? 12 A. Uh-huh. 12 13 Q. Is that -- strike that. 13 14 Did you work on different "timers" 14 correct? A. Yes. 15 commands at the -- roughly the same time period for 15 16 Cisco IOS? 16 17 MR. NEUKOM: Objection. Vague and 18 compound. 18 19 BY MR. WONG: 19 20 Q. Let me ask specifically, actually, about 21 these. 21 A. No. 22 Did you work on the "timers basic" command 22 23 and the "timers bgp" command at the same time? 23 24 A. I don't know if it was the same time, but 25 it was certainly in the late '80s. 25 Page 343 Q. Were there already commands in Cisco IOS 2 at the time you added the "timers bgp" command where
 - 4 frame. But it's the same -- it's the same concept. O. So just so I understand, Mr. Lougheed, 6 before a user at the command-line interface types in 7 "timers bgp" as a command, before that, the user has 8 to type in a routing protocol command? A. Right. For example, "router bgp," 10 "timers" plus the number, and then you would say, 11 you know, "bgp timers" or timers bgp." O. Got it. And BGP refers to border gateway protocol, Q. And we discussed border gateway protocol 17 during your first deposition. Remember that? A. That correct. Q. And as the 1989, BGP was already in IETF 20 industry standards, correct? Q. At what stage was -- strike that. Today BGP is specified in IETF industry 24 standards, correct? A. It is described in an RFC that is a
- 3 the first token was the word "timers"? A. Yes. Q. What existing commands were present in 6 Cisco IOS that started with the first token of "timers" when you added the "timers bgp" command? A. They were all -- they were all subcommands 9 of the "routing" protocol command. They were --10 that was the only -- the only domain that was -- the 11 "timers" command at that time was for routing --12 adjusting timers for routing protocols. Q. And just so I can understand, when you say 14 they were all subcommands of the "routing-protocol"
- 15 command, what is the "routing-protocol" command? A. These days, it would be the "router" 17 command. And the "router" command -- it's a command 18 mode where you say "router," then the name on the 19 routing protocol, like "IGRP" or "RIP" or "BGP." 20 And then you would -- on subsequent lines, you would 21 give command expressions that would tweak stuff that 22 is specific to that particular protocol.
- Q. So was the "timers bgp" command a 24 subcommand of the "routing-protocol" command? 25 A. Yes. Page 344

- 1 standard -- what the IETF calls a standard, yes.
- Q. So as of the time that the timers BGP
- 3 proto- -- strike that.
- At the time that the timers BGP command
- 5 was added to Cisco IOS, at what stage was the BGP
- 6 standardization process in the IETF, to your
- 7 knowledge.
- A. Yakov Rekhter and I came up with the very
- 9 first version of BGP in January of 1989, wrote an
- 10 RFC describing it. And there were other
- 11 implementations that were starting to pop up after
- 12 we did the first couple of RFCs. I don't
- 13 remember -- Yakov Rekhter was the person who handled
- 14 the standards process within the IETF.
- 15 Q. Do you remember the RFC number of the
- 16 first BGP RFC?
- 17 A. I believe it was 1105.
- 18 Q. I think you're right.
- 19 The source code relating to the Cisco fork
- 20 of the EE-CF software that was provided to counsel
- 21 in this case, you testified earlier that it had
- 22 different -- it had copies of source code other than
- 23 the Cisco fork. Do you remember that testimony?
- 24 A. Could you refresh me as to what the
- 25 question was you asked and what I answered?

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	1 Mr. Lougheed.		MR. WONG: I think it's our understanding	g
1	Now, those two sentences that you read	;	that all witnesses can have 30 days or something.	
1	3 from the Stanford Ethertip User Guide marked as		MR. NEUKOM: By stipulation.	
4	4 Exhibit 36 and the Cisco Systems ASM/AGS User Manual		MR. WONG: Great.	
1 5	5 marked as Exhibit 476 are exactly the same, correct?	:	THE VIDEOGRAPHER: This concludes to	oday's
1	A. Yes. I wrote both sentences.	1		
1 7		,		
8	3 from the Stanford guide marked as Exhibit 36 and put	{		
	them into the Cisco guide marked as Exhibit 476,			
1) correct?	10		
11		11		
12		12		
13		13		
	particular sentences.	14		
15		15		
	blanket question and you didn't like his answer,	16		
	which I thought was a pretty darn good one. So you	17		
	decided to just keep him in the room	18		
19		19		
ļ.		1		
20		20		
	objection. You wanted to engage me. So I'll	21		
	explain my objection. If you don't want me piping	22		
	up, that's fine. Just let me make objections for	23		
	the record.	24		
25	Now you're asking him the exact same Page 395	25		Page 397
	question after having had the fourth employee of	1	DECLARATION UNDER PENALTY OF PERJUR	ĽΥ
	Cisco, Mr. Lougheed, who is now here at almost 5:00	2		
	reading aloud from documents. And you asked him the	3	I, KIRK LOUGHEED, the witness herein,	
	same question again to see if you can get a	4	declare under penalty of perjury that I have read the	
	different answer. So go for it. This is starting	5	foregoing in its entirety; and that the testimony	
	to feel increasingly not very respectful of this	6	contained therein, as corrected by me, is a true and	
	witness's time.	7	accurate transcription of my testimony elicited at said	
8	BY MR. WONG:	8	time and place.	
9	Q. Do you want me to read the question again?	9		
10	I'll read the question again.	10	Executed this day of 2016, at	
11	A. That would be fine.	11		-
12	Q. Cisco copied those two sentences that you	12	(City) (State)	
13	just read aloud into the record for its user manual	13		
14	marked as Exhibit 476 from the Stanford user manual	14		
15	marked as Exhibit 36, correct?	15		
16	A. I wrote both manuals.	16		
17	MR. WONG: I have no further questions.	17		
18	THE VIDEOGRAPHER: This concludes today's	18	KIRK LOUGHEED	
19	videotaped deposition of Mr. Kirk	19		
20	MR. NEUKOM: Oh, I'm sorry to interrupt.	20		
21	On behalf of Mr. Lougheed, he reserves the	21		
22	right to review an errata of the transcript. I	22		
	don't know, Ryan, if we've been doing this by	23		
	stipulation for all witnesses, even if it's not put	24		
	on the record.	25		
	Page 396			Page 398

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Case 5:14-cv-05344-BLF Document 512-8 Filed 09/06/16 Page 72 of 122 HIGHLY CONFIDENTIAL - ATTORNEYS' EYES ONLY

		The state of the s
1	REPORTER'S CERTIFICATION	
2	I, Leslie Johnson, a Certified Shorthand	
3	Reporter of the State of California, do hereby certify:	
4	That the foregoing proceedings were taken	
5	before me at the time and place herein set forth; that	
6	any witnesses in the foregoing proceedings, prior to	
7	testifying, were administered an oath; that a record of	
8	the proceedings was made by me using machine shorthand	
9	which was thereafter transcribed under my direction;	
10	that the foregoing transcript is a true record of the	
11	testimony given.	
12	Further, that if the foregoing pertains to	
13	the original transcript of a deposition in a Federal	
14	Case, before completion of the proceedings, review	
15	of the transcript [] was [] was not requested.	
16	I further certify I am neither financially interested in	
17	the action nor a relative or employee of any attorney or	
	any party to this action.	
19	IN WITNESS WHEREOF, I have this date	
20	subscribed my name.	
21	Dated: April 19, 2016	
22	_	
23	desce Johnson	
24	LESLIE JOHNSON	
25	CSR No. 11451, RPR, CCRR	
	Page 399	
		,

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1	UNITED STATES DISTRICT COURT
2	FOR THE NORTHERN DISTRICT OF CALIFORNIA
3	
4	
5	CISCO SYSTEMS, INC.,
6	Plaintiff,)
7	vs.)Civil Action No.:
8	ARISTA NETWORKS, INC.,)5:14-cv-05344-BLF(PSG)
9	Defendant.)
10)
11	
12	CONFIDENTIAL
13	
14	VIDEOTAPED DEPOSITION OF DEVADAS PATIL
15	Palo Alto, California
16	Sunday, February 21, 2016
17	Volume 1
18	
19	
20	
21	Reported by:
22	RACHEL FERRIER, CSR No. 6948
23	Job No. 2223126
24	
25	PAGES 1 - 234
	Page 1

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1 UNITED STATES DISTRICT COURT	1	INDEX
2 FOR THE NORTHERN DISTRICT OF CALIFORNIA	2	
3	3	WITNESS EXAMINATION
4	4	DEVADAS PATIL
5 CISCO SYSTEMS, INC ,)	5	VOLUME 1
6 Plaintiff,)	6	
7 vs)Civil Action No:	7	
8 ARISTA NETWORKS, INC ,)5:14-cv-05344-BLF(PSG)	8	
9 Defendant)	9	
	10	
10)	11	
	12	
12	13	
13	14	
14 VIDEOTAPED DEPOSITION OF DEVADAS PATIL, VOLUME 1.	15	
15 taken on behalf of the Defendant, at Wilson Sonsini	16	
16 Goodrich & Rosati, 650 Page Mill Road, Palo Alto,	17	
17 California, beginning at 9:25 a m and ending at	1	
18 3:44 p m on Sunday, February 21, 2016, before	18	
19 RACHEL FERRIER, Certified Shorthand Reporter No 6948	19	
20	20	
21	21	
22	22	
23	23	
24	24	
25	25	Page d
Page 2		Page 4
1 APPEARANCES:	1	EXHIBITS
2	3	NUMBER DESCRIPTION PAGE
3 For Plaintiff:	-	Exhibit 310 Subpoena to Testify at a
4 KEKER & VAN NEST LLP	'	Deposition in a Civil
5 BY: RYAN WONG	5	Action to Devadas Patil 21
6 Attorney at Law	6	Exhibit 311 Letter dated 2/19/16 to
7 633 Battery Street	7	Devadas Patil from Sean Park 22
8 San Francisco, CA 94111	1	Exhibit 312 Resume for Devadas Patil 29 Exhibit 313 Resume for Devadas Patil
9 415.773.6682		(Bates CSI-CLI-01611242 -
10 rwong@kvn.com	10	01611243) 49
11		Exhibit 314 "Business Development Trends and
12 For Defendant:	12	Analysis for the Data Networking
13 QUINN EMANUEL URQUHART & SULLIVAN, LLP	13	Market" by Devadas Patil 107 Exhibit 315 IEEE 802.1AB Standard for
14 BY: MATTHEW D. CANNON	14	local and metropolitan
15 Attorney at Law	15	area networks
16 50 California Street, 22nd Floor	16	(Bates ARISTANDCA00017907
17 San Francisco, CA 94111		- 18078) 117
18 415.875.6412	1	Exhibit 316 Spreadsheet entitled
19 matthewcannon@quinnemanuel.com	18 19	"Corrected Information Regarding Cisco Command
20	20	Expression Associated
21		with Devadas Patil" 121
22 Videographer:		Exhibit 317 LLDP on Cisco IOS Software
23 SOSEH KEVORKIAN	22	Functional Specification
	23	(Bates CSI-CLI-01507526
//1	24	01507544) 124
24	24	- 01507544) 134
24 25 Page 3	24 25	- 01507544) 134

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1 EXHIBITS	1 MR CANNON: Matthew Cannon from Quinn, Emanuel 09:26AM
2 NUMBER DESCRIPTION PAGE	2 on behalf of Plaintiff Cisco and the witness 09:26AM
3	
4 Exhibit 318 Parser-Police Manifest,	3 THE VIDEOGRAPHER: Thank you 09:26AM
5 Version 5	4 DEVADAS PATIL, 09:26AM
(Bates CSI-CLI-00358164) 165	5 having been administered an oath, was examined and 09:26AM
6 Exhibit 319 E-mail dated 10/10/07	6 testified as follows: 09:26AM
7 from Devadas Patil	7 EXAMINATION 09:26AM
8 (Bates CSI-CLI-00836482) 176	8 BY MR WONG: 09:26AM
9 Exhibit 320 E-mail chain dated 8/10/06	9 Q Good morning 09:26AM
10 from Devadas Patil (Bates CSI-CLI-00817320	10 A Morning 09:26AM
(Bates CSI-CLI-00817320 11 - 817321) 180	11 Q Please state your full name for the record 09:26AM
12 Exhibit 321 E-mail chain dated 8/21/06	12 A Devadas Patil 09:26AM
13 from Devadas Patil	13 Q And, Mr Patil, what is your home address? 09:26AM
14 (Bates CSI-CLI-0817660) 183	
15 Exhibit 322 Cisco IOS Carrier Ethernet	14 A 3137 Kittery Avenue in San Ramon, California 09:26AM
Command Reference	15 94583 09:26AM
16 (Bates CSI-CLI-00291752	16 Q And who is your current employer, Mr Patil? 09:26AM
17 - 292238) 191	17 A GE Digital 09:27AM
18 Exhibit 323 E-mail chain dated 1/5/06	18 Q Do you have a work e-mail address for GE Digital? 09:27AM
19 from Devadas Patil	19 A 1 do 09:27AM
20 (Bates CSI-CLI-00810826	20 Q Could you please state it for the record 09:27AM
- 810828) 208	21 A It is devadas patil@ge com 09:27AM
21 Exhibit 324 E-mail chain dated 2/1/06	22 Q Do you have any personal e-mail addresses that 09:27AM
22 from Devadas Patil	23 you use, Mr Patil? 09:27AM
23 (Bates CSI-CLI-00811125 24 - 811128) 212	24 A I do 09:27AM
24 - 811128) 212 25	
Page 6	25 Q Could you please state those for the record 09:27AM Page 8
1 480 0	1450
1 Palo Alto, California; Sunday, February 21, 2016	1 A Dpatil44@hotmail.com. 09:27AM
1 Palo Alto, California; Sunday, February 21, 2016 2 9:25 a m	1 A Dpatil44@hotmail.com. 09:27AM 2 Q Anything else? 09:27AM
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2 9:25 a m 3	2 Q Anything else? 09:27AM 3 A That's the only one I do use. 09:27AM
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2 9:25 a m 3 4 THE VIDEOGRAPHER: Good morning 09:25AM 5 THE WITNESS: Morning 09:25AM	2 Q Anything else? 09:27AM 3 A That's the only one I do use. 09:27AM 4 Q Okay. And you current or, excuse me, strike 09:27AM 5 that. 09:27AM
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Page 70 25 A Yes. 11:11AM Page 70 1 Q So the market analysis and requirements phase 11:11AM 2 is strike that 11:11AM 3 So the market analysis and requirement stage is 11:11AM 4 the first stage in the multistage process for Phase 1 of 11:11AM 5 the LLDP project? 11:11AM 6 A That's correct 11:11AM 7 Q Is there anything that precedes the market 11:11AM 8 analysis portion strike that 11:11AM 9 Is there anything that precedes the market 11:11AM 10 analysis stage as part of this multistage process you 11:11AM 11 described? 11:11AM 12 see who who is who is doing this and how they are 11:15AM 13 Q So the first thing you did when you were working 11:11AM 14 on Phase 1 of the LLDP project was to perform a market 11:11AM 15 analysis to see what other vendors were doing; is that 11:11AM 16 correct? 11:11AM 17 ProCurve; is that correct? 11:15AM 18 A No 11:15AM 18 A No 11:15AM 18 A No 11:15AM 18 A No 11:15AM 18 A No 11:15AM 18 A No 11:15AM	23 Q Now, for Phase 1 of the LLDP project, did the 11:11AM	23 Q So let's just stick with what you did for 11:14AM
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	MR CANNON: Objection; vague, mischaracterizes 11:11AM	17 ProCurve; is that correct? 11:15AM
9 THE WITNESS: No No It it that's not 11:12AM 19 Q What did you do for the HP ProCurve actually, 11:15AM	18 the witness's prior testimony 11:12 AM	18 A No 11:15AM
	19 THE WITNESS: No No It it that's not 11:12AM	19 Q What did you do for the HP ProCurve actually, 11:15AM
0 accurate 11:12AM 20 strike Let me re-ask let me rephrase the question 11:15AM	20 accurate 11:12AM	
	Q What is inaccurate about what I just asked you? 11:12AM	
	23 A I didn't do it as a requirement I did it as 11:12AM	
	24 aside effect in the sense that this whole protocol was 11:12AM	
	25 very was brand new and I needed someone to to 11:12AM	
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1 sets they have on that particular product, and I recall 11:16AM	1 Q And this is specific to Phase 1 of the LLDP 11:19AM
2 that my interaction with HP ProCurve was more technical 11:16AM	2 project? 11:19AM
3 in the sense that I actively exchanged LLDP concept 11:16AM	3 MR. CANNON: Same objection. 11:19AM
4 concepts with people representing HP ProCurve in in 11:16AM	4 THE WITNESS: Yes. I recall discussing how 11:19AM
5 the standards in in the in the IETF standards 11:16AM	5 sub-interfaces are handled. I recall that for sure. I 11:19AM
6 Q What LLDP concepts did you discuss with your 11:16AM	6 also recall several other discussions about some of the 11:19AM
7 contact at HP during the market analysis stage of 11:16AM	7 fields in the TLV data that we send in LLDP. 11:20AM
8 Phase 1? 11:16AM	8 BY MR. WONG: 11:20AM
9 A During the market analysis, not not nothing 11:16AM	9 Q What is TLV? 11:20AM
10 significant with HP ProCurve, I would say 11:16AM	10 A It's an acronym for type, length, and value. 11:20AM
11 Q How about just during any stages of Phase 1; what 11:17AM	11 Q Did you come up with that acronym? 11:20AM
12 type of LLDP concepts did you discuss with your 11:17AM	12 A No. 11:20AM
13 colleagues at HP ProCurve? 11:17AM	13 Q Do you know who came up with that acronym? 11:20AM
14 A I recall having discussed some of the topics in 11:17AM	14 A It is widely used in the standard. 11:20AM
15 the standard that were not immediately clear, and I 11:17AM	15 Q When you say "widely used in the standard," are 11:20AM
16 discussed the language in there to be certain that it 11:17AM	16 you referring to the LLDP standard? 11:20AM
17 means a means a certain entity in our implementation 11:17AM	17 A That's correct. 11:20AM
18 and how it maps to in their implementation, etc 11:17AM	18 Q Did you also speak with strike that. 11:20AM
19 Q Were these conver strike that 11:17AM	19 What type of market analysis did you do with 11:20AM
Were these communications by phone? 11:17AM	20 respect to Ericsson in Phase 1 of the LLDP project? 11:20AM
21 A Mainly through e-mail 11:17AM	21 A Not much. I must have I was I was under 11:20AM
Q And were you using your Cisco e-mail account for 11:17AM	22 time pressure to finish Phase 1 on in in a timely 11:21AM
23 those communications? 11:17AM	23 manner, and, basically, I was looking at other people 11:2IAM
24 A Yes 11:17AM	24 actively involved in in actual development of this 11:21AM
25 Q You don't have any copies of those e-mail 11:18AM	25 product. And as a side effect of that, I was reading 11:21AM
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1 communications that you might have had with HP ProCurve, 11:18AM	I white papers as fast as I could to see what other 11:21AM
2 do you? 11:18AM	2 network vendors are involved in this area; discovery 11:21AM
3 A No No 11:18AM	3 area, servicing, endpoint, etc., in general, and I must 11:21AM
4 Q You mentioned that you were discussing with HP 11:18AM	4 have done some research on Ericsson as well 11:21AM
5 ProCurve topics relating to IETF standards? 11:18AM	5 Q Okay So you didn't speak to anybody at Ericsson 11:21AM
6 A The LLDP standard 11:18AM	6 who was working on LLDP? 11:21AM
7 Q Is the lETF the standard-setting body for LLDP? I1:18AM	7 A No 11:21AM
8 A I've not been in touch with LLDP for a few years 11:18AM	8 Q What about Juniper; what was your strike that 11:21AM
9 now, but my recollection is LLDP originated I don't 11:18AM	9 What type of market analysis did you do for 11:21AM
0 know whether it's LLDP or LLDP-MED outside of IETF 11:18AM	10 Phase 1 of the LLDP project with respect to Juniper? 11:21AM
1 first, and then two organizations have to have to 11:18AM	11 A None 11:21AM
2 come together to actually ratify the standard, but 1 11:18AM	12 Q Okay Aside from HP ProCurve, Nortel, and 11:21AM
3 know that IETF had a big IEEE IEEE and IETF had a 11:18AM	13 Ericsson, were there any other third-party vendors that 11:22AM
4 big role in it 11:19AM	14 you investigated as part of the market analysis stage of 11:22AM
5 Q Did you discuss any implementation-related issues 11:19AM	15 Phase I of the LLDP project? 11:22AM
6 with the colleagues at HP ProCurve with respect to 11:19AM	16 A Yes 11:22AM
e control to the control of the cont	17 Q What are those other vendors? 11:22 AM
7 Phase 1 of the LLDP project? 11:19AM	
. *	18 A Mitel, Avaya, Polycom 11:22 AM
8 MR CANNON: Objection; vague, asked and 11:19AM	18 A Mitel, Avaya, Polycom 11:22AM 19 O Any other yendors? 11:22AM
8 MR CANNON: Objection; vague, asked and 11:19AM 9 answered 11:19AM	19 Q Any other vendors? 11:22AM
8 MR CANNON: Objection; vague, asked and 11:19AM 9 answered 11:19AM 0 THE WITNESS: Yes 11:19AM	19 Q Any other vendors? 11:22AM 20 A Yes, but I can't recall their names at this time 11:22AM
8 MR CANNON: Objection; vague, asked and 11:19AM 9 answered 11:19AM 0 THE WITNESS: Yes 11:19AM 1 BY MR WONG: 11:19AM	19 Q Any other vendors? 11:22AM 20 A Yes, but I can't recall their names at this time 11:22AM 21 Q You mentioned that you actively communicated with 11:22AM
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8 MR CANNON: Objection; vague, asked and 11:19AM 9 answered 11:19AM 0 THE WITNESS: Yes 11:19AM 1 BY MR WONG: 11:19AM 2 Q What aspects of the actual implementation of LLDP 11:19AM 3 did you discuss with the HP ProCurve engineers? 11:19AM	19 Q Any other vendors? 11:22AM 20 A Yes, but I can't recall their names at this time 11:22AM 21 Q You mentioned that you actively communicated with 11:22AM 22 somebody from HP ProCurve; correct? 11:22AM 23 A Yes 11:22AM
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1 project at Cisco? 11:22AM 2 the current implementation to allow for that is what I 11:26AM 2 the current implementation to allow for that is what I 11:26AM 3 mean by "extensibility " 11:26AM 4 PY MR. WONG: 11:22AM 4 Q So when you were discussing the LLDP project 11:26AM 5 Phase I one of the LLDP project with your colleagues at 11:26AM 6 working on Phase I of the LLDP project at Cisco? 11:23AM 6 HP, did you talk about what you were planning to do for 11:26AM 7 Cisco's implementation? 11:26AM 8 Q External to Cisco, yes. 11:23AM 8 Q External to Cisco, yes. 11:23AM 9 THE WITNESS: No 11:26AM 11 actual people that responded to me from the standards 11:23AM 12 planning to do for HP's implementation? 11:26AM 11:	
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12 o maii areas, out i would suy a row o maiis with people 11.257111 12 planning to do for its simplementation:	
13 other than HP ProCurve that were part of the standards 11:23AM 13 MR CANNON: Objection; vague 11:26AM	
14 body, and, of course, HP ProCurve people were also in 11:23AM 14 THE WITNESS: No 11:26AM	
16 Q And when you are referring to "the standards," 11:23AM 16 Q Which of those vendors that we just discussed 11:27AM	
17 are you referring to the IEEE? 11:23AM 17 were also in the process of implementing LLDP in their 11:27AM	
18 A Yes. 11:23AM 18 products? 11:27AM	
19 Q Are you an IEEE member, Mr. Patil? 11:23AM 19 A I know for sure that HP ProCurve was 11 11:27AM	
20 A I am, but I'm not very active. 11:23AM 20 think Nortel was too, but I was not 100 percent sure 11:27AM	
21 Q How long have you been a member of the IEEE? 11:23AM 21 MR WONG: Why don't we take a quick break 11:27AM	
22 A I don't know whether my membership has actually 11:24AM 22 THE WITNESS: Okay 11:27AM	
23 expired, but I started very early in the '90s. 11:24AM 23 THE VIDEOGRAPHER: We are going off the record at 11:27AM	
24 Q And were you involved in the standard-setting 11:24AM 24 11:27 a m 11:27AM	
25 process for LLDP? 11:24AM 25 (Recess taken) 11:27AM	
Page 78 Page	3 80
1 A No 11:24AM 1 THE VIDEOGRAPHER: We are back on the record at 11:33AM	
2 Q Why was it important for you to find other people 11:24AM 2 11:33 a m 11:33AM	
3 to talk to while you were working on Phase 1 of the LLDP 11:24AM 3 BY MR WONG: 11:33AM	
4 project? 11:24AM 4 Q Before the break, Mr Patil, we were discussing 11:33AM	
5 A To make the right architectural and design 11:24AM 5 the various stages that are involved in implementing the 11:33AM	
6 decisions so that we don't have to tear down a lot of 11:24AM 6 LLDP project at Cisco 11:34AM	ĺ
7 stuff later, post-implementation, post-testing, and 11:24AM 7 A Mm-lmm 11:34AM	
8 that's the, I would say, cautious approach for a project 11:24AM 8 Q We were talking specifically about Phase 1 11:34AM	
9 of this size 11:24AM 9 A Yes 11:34AM	
10 Q How does talking with other vendors outside of 11:24AM IO Q During what phase strike that 11:34AM	
11 Cisco help you to make the right architectural and 11:24AM 11 During what stage of the stages that you 11:34AM	
14 A It gives us an understanding of how this can be 11:25AM 14 THE WITNESS: Both Phase 1 and Phase 2 11:34AM	
15 done in phases It helps us avoid costly architectural 11:25AM 15 BY MR WONG: 11:34AM	
16 and design mistakes so that we abstract the initial 11:25AM 16 Q I'm sorry, my question was: During which of the 11:34AM	
17 implementation for extensibility, and it also helps us 11:25AM 17 stages that you listed out for me are the syntaxes for 11:34AM	
18 plan for things coming down the pipeline, such as 11:25AM 18 the commands, and specifically the LLDP commands, 11:34AM	
19 Phase 2 or even Phase 3 when it comes to a map and 11:25AM 19 created? 11:34AM	
20 locations 11:25AM 20 MR CANNON: Objection; vague 11:34AM	
21 Q What do you mean by "extensibility"? 11:25AM 21 THE WITNESS: In the design specification for the 11:34AM	
22 A The ability to support value-added features to 11:25AM 22 phase 11:34AM	
23 target certain markets An example is something like 11:26AM 23 BY MR WONG: 11:34AM	
24 inline power provisioning on endpoints through LLDP 11:26AM 24 Q And just so it's clear to me, the first stage 11:34AM	
25 Knowing that it's coming in the roadmap, in the 11:26AM Page 79 25 that you described was the market analysis and Page Page	81

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1 requirement stage; correct? 11:35AM	1 Routing Information Base that I talked about earlier 11:37AM
2 A Correct. 11:35AM	2 or mentioned 11:37AM
3 Q And the second stage that you described was an 11:35AM	3 Q How focusing specifically on Phase 1 of the 11:37AM
4 architectural stage; is that right? 11:35AM	4 LLDP project, how was that a key architectural decision? 11:37AM
5 A That's correct. 11:35AM	5 MR CANNON: Objection; vague 11:37AM
6 Q And the third stage is the design stage? 11:35AM	6 BY MR WONG: 11:37AM
7 A Yes. 11:35AM	7 Q I'm using your own words here in your resume, 11:37AM
8 Q So it's the third stage where the command syntax 11:35AM	8 Mr Patil 11:38AM
9 for the LLDP commands, talking specifically with respect 11:35At	9 How was that how was Phase 1 of the LLDP 11:38AM
10 to Phase 1, were created; correct? 11:35AM	10 project a key architectural decision for Cisco products? 11:38AM
11 A That's correct. 11:35AM	11 MR CANNON: Objection; vague, mischaracterizes 11:38AM
12 MR. CANNON: Objection; vague. 11:35AM	12 testimony 11:38AM
13 BY MR. WONG: 11:35AM	13 THE WITNESS: From an architectural perspective, 11:38AM
14 Q Was there any discussion with any of the third 11:35AM	14 it was it had to do with how to co-exist with 11:38AM
15 parties that we just discussed about the commands that 11:35AM	15 existing protocols and features on Cisco platforms 11:38AM
16 would be used for LLDP? 11:35AM	16 BY MR. WONG: 11:38AM
17 MR. CANNON: Objection; vague. 11:35AM	17 Q And what did you do with respect to Phase 1 of 11:38AM
18 THE WITNESS: No. 11:35AM	18 the LLDP project to ensure that it co-existed with 11:38AM
19 BY MR. WONG: 11:35AM	19 existing protocols and features on Cisco platforms? 11:38AM
20 Q Was there any discussion with any of the third 11:35AM	20 A From an architectural standpoint, kept the LLDP 11:38AM
21 parties that we just discussed about the interface 11:35 AM	21 database insulated and separate and disjoined from other 11:38AM
22 command-line interface in general that would be used for 11:35AM	22 discovery protocols 11:39AM
23 LLDP? 11:36AM	23 And from a protocol standpoint, made sure that 11:39AM
24 A No. 11:36AM	24 there is no relationship or collaboration between 11:39AM
25 Q Looking back at Exhibit 313 under the description 11:36AM	25 discovery protocols and they just function 11:39AM
Page 82	Page 84
1 under "Cisco Systems." 11:36AM	l independently 11:39AM
1 under "Cisco Systems." 11:36AM 2 A Yeah. 11:36AM	1 independently 11:39AM 2 Q Before the break, you testified about 11:39AM
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	l MR WONG: Right 12:24PM		I activity for LLDP was was happening, and it I 12:28PM
2	2 Q The Arista Networks's EOS was an example of 12:24PM	2	2 recall that it was it was slow for a period of time 12:28PM
3	3 innovation in this area; correct? 12:24PM	3	3 in between and then it took off again. 12:28PM
	4 MR CANNON: Objection; vague 12:24PM	4	BY MR. WONG: 12:28PM
1 :	5 THE WITNESS: Example, yes 12:24PM	5	Q And you didn't participate in any of the efforts 12:28PM
	6 MR CANNON: mischaracterizes prior testimony, 12:24PM	6	to standardize LLDP from the '90s to 2004; is that 12:28PM
1 2	7 lacks foundation, calls for improper opinion testimony 12:24PM	1	7 right? 12:28PM
	8 BY MR WONG: 12:24PM	8	
	9 Q And these are these are your words here on 12:24PM	9	
10	·		of the LLDP standard; correct? 12:28PM
11		11	
12	• • • •	12	
	· · · · · ·	13	
1	B your thesis marked as Exhibit 314; correct? 12:24PM		• •
14		14	
i	5 opinion testimony, lacks foundation 12:24PM	15	3
16	· · · · · · · · · · · · · · · · · · ·	16	
	opinions 12:25PM	17	
18		18	
19	` ' ' ' '	19	·
20	description of what "LLDP" is? 12:25PM		P-u-r-n-a-m. 12:29PM
21	A Yes Yes, I can 12:25PM	21	Q And how did you learn about the LLDP standard, 12:29PM
22	Q What what is "LLDP"? 12:25PM	22	the the way it worked? 12:29PM
23	A "LLDP" stands for Link Layer Discovery Protocol, 12:25PM	23	A I upon being tasked with this with this 12:29PM
24	and it is a at a high-level, it's a standardized way 12:25PM	24	project, to lead this project, I did some initial 12:29PM
25	for devices to discover each other and know of each 12:25PM	25	research and it was very aggressive project at that 12:29PM
	Page 114		Page 116
1	other. 12:25PM	1	point, and so I yeah, I researched it actively and 12:29PM
1 2		1	. ,
2	Q When you say it's a "standardized way for devices 12:25PM	2	wanted to know as much of it as possible as early as 12:29PM
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	Q When you say it's a "standardized way for devices 12:25PM to discover each other and know of each other," what do 12:26PM you mean by a "standardized way"? 12:26PM A "Standardized" in the sense that it's a industry 12:26PM standardized agreement and and ratified agreement on 12:26PM how a discovery can happen in a standardized way, and it's meant in contrast with how proprietary discovery 12:26PM mechanisms can happen. 12:26PM Q When you say it's a "ratified agreement," what do 12:26PM you mean by "ratified"? 12:26PM A "Ratified" means something that has been 12:26PM something that has withstood the test of time and has 12:26PM been reviewed by several experts in the industry who 12:27PM who have the ability to see that not just from a 12:27PM feature perspective but also from a holistic perspective 12:27PM and then they collectively meet and discuss their 12:27PM concerns and refine the standard appropriately and then 12:27PM agree on a version that is that can be considered 12:27PM standard. 12:27PM Q Do you know when LLDP was standardized? 12:27PM MR. CANNON: Objection; vague. 12:27PM THE WITNESS: The initial attempt, I think, from 12:27PM	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	wanted to know as much of it as possible as early as possible. 12:29PM Q When were you tasked with the LLDP project? 12:29PM A Late 2005. 12:30PM Q And what documents, if any, did you review to 12:30PM learn about the LLDP standard? 12:30PM A I recall reviewing the very first version of the 12:30PM RFC that they put out that was still not ratified, but 12:30PM there was an RFC and that that got me into it, yeah. 12:30PM Q Did you review the IEEE standard that related to 12:30PM LLDP? 12:30PM A Yes. 12:30PM MR. WONG: Let's mark this as 315, please. 12:30PM (Exhibit 315 was marked for 12:31PM identification by the Court Reporter.) 12:31PM MR. WONG: The Reporter has marked, as 12:31PM Exhibit 315, document bearing control numbers 12:31PM ARISTANDCA00017907 to 18078. 12:31PM Q Mr. Patil, do you recognize the document marked 12:31PM as Exhibit 315? 12:31PM A Ido. 12:31PM Q And what is the document marked as Exhibit 315? 12:31PM A This is the 802.1AB, which is the technical name 12:31PM

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1 initial version of LLDP 12:31PM	
	1 implement LLDP, was it just you who was involved in that 12:34PM
2 Q And when was this IEEE standard approved? 12:31PM	2 effort? 12:34PM
3 A 1 don't recall the exact dates, but sometime in 12:31PM	3 A 1 recall that the first three months were 12:34PM
4 2007, is what I think the initial LLDP standard itself 12:32PM	4 extremely aggressive, and I was the only one actually 12:34PM
5 got approved 12:32PM	5 taking the lead on it and doing everything all the 12:34PM
6 Q Okay If you look at page 2 of 802 1AB excuse 12:32PM	6 stages of it in the in the first three three 12:34PM
7 me 12;32PM	7 months, so, yes, in the first three months, but no after 12:35PM
8 If you look at page 2 of Exhibit 315, there are 12:32PM	8 that 12:35PM
9 several dates there of of approval 12:32PM	9 Q And after the first three months, who else was 12:35PM
10 Do you see that? 12:32PM	10 involved in the LLDP project at Cisco? 12:35PM
11 A Page 12:32PM	11 A A lot of the there are a lot of testing people 12:35PM
12 Q I'm sorry, it's the second page of the actual 12:32PM	12 who were who got involved, a lot of people from 12:35PM
13 exhibit, not not the numbered page 2 12:32PM	13 individual business units who wanted to sort of, for 12:35PM
14 A Yeah, so second page here, copyrights I'm 12:32PM	14 lack of a better term, acquire this technology for their 12:35PM
15 looking at the physical second page 12:32PM	15 platform Their engineers wanted to get involved, and 12:35PM
16 Q Mm-hmm 12:32PM	16 they there were also people in our own NSSTG that were 12:35PM
17 A Is that what you mean? 12:32PM	17 supporting me 12:35PM
18 Q That's correct 12:32PM	18 THE VIDEOGRAPHER: Counsel 12:35PM
19 A This is page 1 and this is page 2 12:33PM	19 MR WONG: Yes? 12:35PM
20 Q That's right 12:33PM	20 Why don't we take a break right now 12:36PM
21 A So approved 28 June 2005 and approved March 2005, 12:33PM	21 THE VIDEOGRAPHER: We are going off the record at 12:36PM
22 yes 12:33PM	22 12:35 pm This is the end of Media 2 12:36PM
23 Q So does that match your recollection of when the 12:33PM	23 (Lunch recess taken) 12:36PM
24 LLDP standard was approved? 12:33PM	2400 12:36PM
25 A Approved, but not ratified and finalized 12:33PM	25 12.30FM
Page 118	
1 Q I see 12:33PM	I AFTERNOON SESSION 1:03 P M 12:36PM
What's the difference between the approval of a 12:33PM	2 12:36PM
3 standard and the ratification and finalization of a 12:33PM	3 (Exhibit 316 was marked for 12:36PM
4 standard? 12:33PM	
5 MR CANNON: Objection; vague, lacks foundation 12:33PM	4 identification by the Court Reporter) 01:03PM 5 THE VIDEOGRAPHER: We are on the record at 01:03PM
6 THE WITNESS: I have not been in the standards 12:33PM	
o THE WITNESS. Thave not been in the standards 12.55PM	6 1:01 1:03 p in This is the beginning of Media 3 in 01:03PM
7. b. 46 and advantage of and an analysis discussed in the 10.22m (7 de des sides sCD este Deit CLOSDA
7 bodies actively myself, and my understanding is the 12:33PM	7 the deposition of Devadas Patil 01:03PM
8 various phases of it leading up leading to the actual 12:33PM	8 BY MR WONG: 01:03PM
8 various phases of it leading up leading to the actual 12:33PM 9 ratification whereby experts in that area of interest 12:33PM	8 BY MR WONG: 01:03PM 9 Q Welcome back from the break, Mr Patil 01:03PM
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1	A Okay. Yeah, I'm done. 01:04PM	1 mentioned, did the LLDP project involve implementing 01:07PM
2	Q Do you understand that Cisco has identified you 01:04PM	M 2 LLDP on those other operating systems? 01:07PM
3	as the author or originator of the commands lifted 01:04PM	I 3 A I was not aware of that 01:07PM
4	listed on the left-side column of Exhibit 316? 01:05PM	4 Q Okay So your personal involvement in Phase 1 of 01:07PM
5	A Yes. 01:05PM	5 the LLDP project focused only on implementing LLDP for 01:07PM
6		6 Cisco IOS; correct? 01:08PM
7	Exhibit 316 associated with the LLDP project that we 01:05PM	PM 7 A Mm-huum Yeah 01:08PM
8	have been talking about this morning? 01:05PM	8 Q We mentioned strike that 01:08PM
9	A Yes. 01:05PM	9 You mentioned the different stages that were part 01:08PM
10	Q Were these commands added to Cisco IOS as part of 01:05P	5PM 10 of Phase 1 of the LLDP project 01:08PM
11	Phase 1 of the LLDP project? 01:05PM	11 Do you remember that? 01:08PM
12	A Yes. That's correct, yes. 01:05PM	12 A Yes 01:08PM
13	Q Okay. You can set that aside for now, Mr. Patil. 01:05PM	13 Q Can you let me know strike that 01:08PM
14	We were talking before the break about how you 01:05PM	M 14 Can you list for me again the stages in the order 01 08PM
15	became involved in the LLDP project. 01:05PM	15 that they are handled? 01:08PM
16	Do you remember that? 01:05PM	16 MR CANNON: Objection; asked and answered 01:08PM
17	A Mm-hmm. 01:05PM	17 THE WITNESS: It's market analysis, slash, 01:08PM
18	Q Were there particular Cisco products that the 01:05PM	18 requirements as Stage 1 Architecture would be Stage 2 01:08PM
19	LLDP implementation was going to apply to? 01:05PM	19 Design would be Stage 3, and implementation and testing 01:08PM
20	A Yes. 01:05PM	20 would be Stages 4 and 5 01:08PM
21	Q Okay. And I'm asking at the time that you 01:05PM	21 BY MR WONG: 01:08PM
22	started working on the LLDP project. 01:05PM	22 Q Testing is the fifth stage; correct? 01:08PM
23	Do you understand? 01:05PM	23 A Yes 01:08PM
24	A Mm-hmm. 01:05PM	24 Q And it would go in that order, from Stage 1 to 01:08PM
25	Q What Cisco products were targeted for the LLDP 01:05PM	
	Page 122	22 Page 124
I	implementation at the start of Phase 1 of the project? 01:06PM	1 A Technically, yes, but in the interest of time, 01:09PM
2	A The initial rollout was for the Catalyst family 01:06PM	2 some of these phases will stages will overlap. 01:09PM
3	of enterprise switches, the Catalyst 6500, the 01:06PM	3 Q How long did Phase 1 of the LLDP project take to 01:09PM
4	Catalyst 3000 series was soon to follow after that and, 01 06PM	4 go from Stage 1 to Stage 5? 01:09PM
5	later on, other platforms, including the SR1K, it opted 01:06PM	5 A I would say Stage 1 to Stage 5, roughly six 01:09PM
6	the standard 01:06PM	6 months. 01:09PM
7	Q When you say "later on, other platforms," what do 01:06PM	7 Q So it took six months to go from the 01:09PM
8	you mean by "later on"? 01:06PM	8 marketing/requirements stage all the way through the 01:09PM
9	A "Later on" as in the 2010-'11 time frame, yeah 01:06PM	9 fifth testing stage for for Phase 1; correct? 01:09PM
01	Q Okay So initially in 2005, though, what were 01:06PM	10 A Yes. 01:09PM
11	he targeted Cisco products for the LLDP implementation? 01:06PM	11 Q Which of the five stages consumed the most time 01:09PM
12	A The Catalyst switches 01:06PM	12 out of those six months? 01:09PM
13	Q And in terms of the operating system that the 01:06PM	13 A Architecture and design. 01:10PM
14	LLDP implementation would apply to, was it just Cisco 01:07PM	14 Q Oh, Stages 2 and 3? 01:10PM
15	OS? 01 07PM	15 A Yes. 01:10PM
16	A Yes 01:07PM	16 Q Did either architecture or design take more time 01:10PM
17	Q Okay You are aware of other operating systems 01:07PM	17 than the other? 01:10PM
18 t	hat are used by other Cisco products? 01:07PM	18 A I would say architecture took took more than a 01:10PM
19	A I am 01:07PM	19 couple couple months to firm up. 01:10PM
20	Q What are the other operating systems that you are 01:07PM	20 Q So how many months or weeks strike that. 01:10PM
21 8	ware of that are used by other Cisco products? 01:07PM	21 How long, approximately, did it take for the 01:10PM
	A The Cisco XR, Cisco ENA 1 think it's been 01:07PM	22 design stage of Phase 1 of the LLDP project to be 01:10PM
22		23 completed? 01:10PM
22 23 г	enamed the NX-OS There's also what do they call 01:07PM	25 completed:
23 г	enamed the NX-OS There's also what do they call 01:07PM he software router, but those are the main ones 01:07PM	24 A About three and a half to four weeks. 01:10PM
23 г		24 A About three and a half to four weeks. 01:10PM 25 Q And what is part of the design stage for Phase 1 01:10PM

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1 my reviewers' discussion, a good, I would say I mean, 01:16PM	1 proprietary protocol like CDP? 01:19PM
2 if you just add up all the time phases, maybe three man 01:16PM	2 MR. CANNON: Objection; vague, lacks foundation, 01:191
3 days to four man days 01:16PM	3 and calls for improper opinion testimony. 01:19PM
4 BY MR WONG: 01:16PM	4 MR. WONG: Let me let me take a step back 01:19PM
5 Q And when you say "man days," you mean 9:00 to 01:16PM	5 here. 01:19PM
6 5:00? 01:16PM	6 Q You are you are familiar with CDP; correct? 01:19PM
7 A Yes 01:16PM	7 A Yes. 01:19PM
8 Q Now, you testified, before the break, that you 01:16PM	8 Q And you you were familiar with CDP from your 01:19PN
9 had reviewed the IEEE LLDP standard that we marked as 01:17PM	9 time working at Cisco; correct? 01:19PM
10 Exhibit 315 sometime in 2005 01:17PM	10 A Yes. Yes. 01:19PM
11 Do you remember that testimony? 01:17PM	11 Q What type of experience did you have working with 01:19Pt
12 A Yes 01:17PM	12 CDP from your employment at Cisco? 01:19PM
13 Q During what stage of Phase 1 of the LLDP project 01:17PM	13 A 1 before getting into this project, I didn't 01:19PM
14 did you review the IEEE LLDP standard? 01:17PM	14 have a lot of opportunity or need to work with CDP. 1 01:19PM
15 A Mainly in the market analysis and architecture 01:17PM	15 know that it existed, and after I got tasked with this, 01:19PM
16 phases 01:17PM	16 I I I looked at it and got deeper knowledge of it 01:19PM
17 Q So those would be Phases 1 and excuse me, 01:17PM	17 and understood that it is a proprietary protocol and we 01:19PM
18 those would be Stages 1 and 2? 01:17PM	18 are standardizing it in LLDP and yeah. 01:20PM
19 A Yes 01:17PM	19 Q And so during what stage of the five stages that 01:20PM
20 Q And did you review the IEEE LLDP standard from 01:17PM	20 we have been talking about for Phase 1 of the LLDP 01:20PM
21 front to back? 01:17PM	21 project did you look at Cisco's implementation of CDP? 01:20PM
22 A I made a full attempt to do that, yes I don't 01:17PM	22 A The first three. 01:20PM
23 know if I reviewed every word of it, but 01:17PM	23 Q And what did you what did you review to get up 01:20PM
24 Q And you made a full attempt to review the 01:17PM	24 to speed on Cisco's implementation of CDP? 01:20PM
25 complete IEEE LLDP standard before moving on to the 01:17PM	25 A I I looked at the code. I looked at the 01:20PM
Page 130	Page 132
I design stage of Phase I of the LLDP project; correct? 01:17PM	1 specifications, and I probably discussed with the 01:20PM
2 MR CANNON: Objection; vague 01:18PM	2 original developer for it, and that's about what I must 01:20PM
3 THE WITNESS: Yes I mean, I didn't read the 01:18PM	3 have done, yeah. 01:20PM
4 each cell of the table, but from a general understanding 01:18PM	4 Q Is LLDP based at all on CDP, to your knowledge? 01:20PM
5 and the main concepts, yes 01:18PM	5 MR. CANNON: Objection; vague, lacks foundation, 01:20Pi
6 BY MR WONG: 01:18PM	6 calls for improper opinion testimony. 01:21PM
7 Q Why was it important to review as much of the 01:18PM	7 THE WITNESS: It's very similar, and I it's 01:21PM
8 1EEE LLDP standard as possible before moving on to the 01:18PM	8 certainly heavily influenced by CDP, but I I I 01:21PM
9 design stage of Phase 1 of the LLDP project? 01:18PM	9 would be wrong to say that it is based on CDP. 01:21PM
10 MR CANNON: Objection; vague, assumes facts not 01:18PM	10 BY MR. WONG: 01:21PM
11 in evidence, mischaracterizes testimony 01:18PM	
12 THE WITNESS: Because we wanted to do a very 01:18PM	12 to your knowledge? 01:21PM
13 solid joh of the architecture, and, fundamentally, we 01:18PM	MR. CANNON: Objection; vague, lacks foundation, 01:21PM
14 were, from an architecture standpoint, trying to 01:18PM	14 and calls for improper opinion testimony. 01:21PM
15 understand how they should co-exist with CDP 01:18PM	15 THE WITNESS: The mechanics of it, meaning we 01:21PM
16 BY MR WONG; 01:18PM	16 send it there is a frequency of keep-alive messages. 01:21PM
17 Q And what is "CDP"? 01:18PM	17 There is a frequency of initial discovery as opposed to 01:21PM
1	
18 A Oh, Cisco Discovery Protocol 01:18PM	18 a push button, one point say message saying, hey, I'm 01:21PM
18 A Oh, Cisco Discovery Protocol 01:18PM 19 Q And was Cisco Discovery Protocol an 01:18PM	
-	18 a push button, one point say message saying, hey, I'm 01:21PM
19 Q And was Cisco Discovery Protocol an 01:18PM 20 industry-standardized protocol? 01:19PM	18 a push button, one point say message saying, hey, I'm 01:21PM 19 alive, and until I send another message that I'm not 01:21PM
19 Q And was Cisco Discovery Protocol an 01:18PM 20 industry-standardized protocol? 01:19PM 21 A No 01:19PM	18 a push button, one point say message saying, hey, I'm 01:21PM 19 alive, and until I send another message that I'm not 01:21PM 20 alive, don't even bother. 01:21PM
19 Q And was Cisco Discovery Protocol an 01:18PM 20 industry-standardized protocol? 01:19PM 21 A No 01:19PM 22 Q What was it, then? 01:19PM	18 a push button, one point say message saying, hey, I'm 01:21PM 19 alive, and until I send another message that I'm not 01:21PM 20 alive, don't even bother. 01:21PM 21 There are various paradigms of how this can be 01:21PM
19 Q And was Cisco Discovery Protocol an 01:18PM 20 industry-standardized protocol? 01:19PM 21 A No 01:19PM 22 Q What was it, then? 01:19PM 23 A Cisco proprietary discovery protocol 01:19PM	18 a push button, one point say message saying, hey, I'm 01:21PM 19 alive, and until I send another message that I'm not 01:21PM 20 alive, don't even bother. 01:21PM 21 There are various paradigms of how this can be 01:21PM 22 done, right? So in that respect, it's it's similar, 01:21PM
19 Q And was Cisco Discovery Protocol an 01:18PM 20 industry-standardized protocol? 01:19PM 21 A No 01:19PM 22 Q What was it, then? 01:19PM 23 A Cisco proprietary discovery protocol 01:19PM 24 Q What's the difference between a 01:19PM	18 a push button, one point say message saying, hey, I'm 01:21PM 19 alive, and until I send another message that I'm not 01:21PM 20 alive, don't even bother. 01:21PM 21 There are various paradigms of how this can be 01:21PM 22 done, right? So in that respect, it's it's similar, 01:21PM 23 and that's how it influences the the standard 01:22PM

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	Q Did you come up with the term "neighbors" in the 01:32PM	1	and there is no right answer for this, but my personal 01:34PM
1	2 sense of discovery? 01:32PM	2	opinion is a yes. 01:34PM
	3 A No. 01:32PM	3	BY MR. WONG: 01:34PM
4	4 Q Where did the term "neighbors" come from as used 01:32PM	4	Q And why is that important, Mr. Patil? 01:34PM
:	5 in the sense of discovery? 01:32PM	5	MR. CANNON: Same objections, 01:34PM
1	6 MR. CANNON: Objection; lacks foundation. 01:32PM	6	THE WITNESS: My personal opinion is that devices 01:34PM
-	7 BY MR. WONG: 01:32PM	7	should freely discover each other and collaborate to 01:35PM
1 8	8 Q If you know. 01:32PM	8	bring about functionality, and that's the reason they 01:35PM
		1	should be there should be a standard. 01:35PM
	communicate it correctly. 01:32PM	l	BY MR. WONG: 01:35PM
11	· · · · · · · · · · · · · · · · · · ·	11	
12	•		discover each other, you are referring to devices from 01:35PM
13		1	different vendors; correct? 01:35PM
		l	•
	who will give me suggestions on where what what to 01:32PM	ŀ	
	5 change or how to improve it. 01:33PM	15	
16		į .	different vendors to freely discover each other, as you 01:35PM
1	7 with a Cisco device in the process of discovering each 01:33PM	1	say, would be to have a standard to do that; correct? 01:35PM
18	other as neighbors, as you say here on page 3 of 01:33PM	18	, and the second
19	Exhibit 317? 01:33PM	19	calls for improper opinion testimony. 01:35PM
20	MR. CANNON: Objection; vague, incomplete 01:33PM	20	THE WITNESS: That's correct. 01:35PM
21	hypothetical, calls for improper opinion testimony, 01:33PM	21	BY MR. WONG: 01:35PM
22	lacks foundation. 01:33PM	22	Q And, finally, the last sentence in this 01:35PM
23	THE WITNESS: Because the existing protocols back 01:33PM	123	paragraph, top of page 3 of Exhibit 317, says, "LLDP was 01:35PM
24	then were proprietary. Cisco had its own proprietary 01:33PM	24	standardized by IEEE as part of 802.1ab, and Cisco's 01:35PM
25	protocol for discovery. Model [phonetic] had its own 01:33PM	25	implementation will be based on this standard." 01:35PM
	Page 142		Page 144
1	proprietary protocol for discovery, and they don't talk 01:33PM	1	Do you see that? 01:35PM
2	to each other. That's what I meant. 01:33PM	2	A Yes 01:35PM
3	BY MR. WONG: 01:33PM	3	Q Right 01:35PM
4	Q And the next sentence in this paragraph, you 01:33PM	4	This 802 1AB that you are referring to in 01:35PM
5	wrote: "Thus there is a need for Cisco devices to 01:33PM	5	Exhibit 317 is the same standard marked as Exhibit 315 01:36PM
6	comply with an industry standard for network topology 01:33PM	6	here; correct? 01:36PM
	discovery." 01:33PM	7	A That's correct 01;36PM
8		8	Q Okay And is it correct that Cisco's 01:36PM
9			implementation of LLDP was based upon the IEEE standard 01:36PM
			marked as Exhibit 315? 01:36PM
10		11	MR CANNON: Objection; vague 01:36PM
11	with an industry standard for network topology 01:33PM		MR CANNUN: Untection: vague 01:30FM
12	discovery, as you wrote in Exhibit 317? 01:34PM	12	THE WITNESS: It is based upon that, right 01:36PM
12 13	discovery, as you wrote in Exhibit 317? 01:34PM MR. CANNON: Objection; vague, lacks foundation, 01:34PM	12 13	THE WITNESS: It is based upon that, right 01:36PM BY MR WONG: 01:36PM
12 13	discovery, as you wrote in Exhibit 317? 01:34PM MR. CANNON: Objection; vague, lacks foundation, 01:34PM calls for improper opinion testimony. 01:34PM	12 13 14	THE WITNESS: It is based upon that, right 01:36PM BY MR WONG: 01:36PM Q And that was intentional; correct? 01:36PM
12 13 14 15	discovery, as you wrote in Exhibit 317? 01:34PM MR. CANNON: Objection; vague, lacks foundation, 01:34PM calls for improper opinion testimony. 01:34PM THE WITNESS: The answer is in the very previous 01:34PM	12 13 14	THE WITNESS: It is based upon that, right 01:36PM BY MR WONG: 01:36PM
12 13 14 15	discovery, as you wrote in Exhibit 317? 01:34PM MR. CANNON: Objection; vague, lacks foundation, 01:34PM calls for improper opinion testimony. 01:34PM	12 13 14	THE WITNESS: It is based upon that, right 01:36PM BY MR WONG: 01:36PM Q And that was intentional; correct? 01:36PM
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COTT	IDENTIAL:
1 A Compliant with, yes 01:37PM	1 that with one with just one vendor's equipment just 01:40PM
2 Q In the third paragraph on page 3 of Exhibit 317, 01:37PM	2 to make SNMP work, and that level of interoperability at 01:40PM
3 first sentence says, "LLDP facilitates the use of 01:37PM	3 the SNMP level can be very handy in in in larger 01:40PM
4 standard management tools such as SNMP in a multi-vendor 01:37PM	4 networks. 01:40PM
5 network " 01:37PM	5 BY MR. WONG: 01:40PM
6 Do you see that? 01:37PM	6 Q If there wasn't the standardization for SNMP 01:40PM
7 A Yes 01:37PM	7 inquiries and you had a multivendor network, would you 01:40PM
8 Q What do you mean by that statement? 01:37PM	8 have to write different SNMP inquiries for each network? 01:40PN
9 A So the answer to that might get a little 01:37PM	9 MR. CANNON: Objection; vague, incomplete 01:41PM
10 technical, but I'll say that anyway 01:37PM	10 hypothetical, lacks foundation, calls for improper 01:41PM
11 Part of the IEEE standard is also a specification 01:37PM	11 opinion testimony. 01:41PM
12 of topology Management Information Base, which can be 01:37PM	12 THE WITNESS: If that were the case, then then 01:41PM
13 developed to make SNMP queries, so if the Management 01:37PM	13 we are we are essentially talking of vendor-specific 01:41PM
14 Information Base can be standard across all vendors, 01:37PM	14 Management Information Bases, and that would, at the 01:41PM
15 that means that the SNMP queries will apply universally 01:38PM	15 very least, at least require some level of nonstandard 01:41PM
16 across all vendors, and that's the the added 01:38PM	16 or tailored queries for each vendor. 01:41PM
17 advantage of standardizing this 01:38PM	17 BY MR. WONG: 01:41PM
18 Q And what is "SNMP"? 01:38PM	18 Q If you turn back to Exhibit 315, it's the IEEE 01:42PM
19 A It it stands for Simple Network Management 01:38PM	19 standard for LLDP. 01:42PM
20 Protocol 01:38PM	20 A Yes. 01:42PM
21 Q And how was what's the function or purpose of 01:38PM	21 Q Now, LLDP is a defined term in the IEEE standard; 01:42PM
• •	22 correct? 01:42PM
23 MR CANNON: Objection; vague 01:38PM	23 A Yes. 01:42PM
24 THE WITNESS: The purpose of SNMP is to, 01:38PM	24 Q In fact, if you look to page 5 of and I'm 01:42PM
25 essentially, allow network administrators and engineers 01:38PM Page 14	25 looking pointing to page 5 at the bottom of the page 01:42PM Page 148
I and developers to be able to create network information 01:38PM	1 I of Exhibit 315, there is a section on the top that it 01:42PM
2 and send send trap what are called technically 01:38PM	2 says "Definitions and numerical representation " 01:42PM
3 called "traps," SNMP traps, to signal significant events 01:39PM	3 Do you see that? 01:42PM
4 in a network. And it's a protocol that persists network 01:39PM	4 A Yes 01:42PM
5 information in a in a place called MIB, Management 01:39PM	1 5 Q Aird entry 3 1 6 01:42PM
6 Information Base, and then provides a user interface 01:39PM	6 A Yes 01:42PM
7 to to query that data. 01:39PM	7 Q defines Link Layer Discovery Protocol and, in 01:42PM
8 BY MR. WONG: 01:39PM	8 parentheses, LLDP 01:42PM
9 Q And I think you said that if the Management 01:39PM	9 Do you see that? 01:42PM
10 Information Base, or MIB, can be standard across all 01:39PM	10 A Mm-hmm 01:42PM
11 vendors, that means that the SNMP inquiries [sic] will 01:39PM	11 Q So you were aware that LLDP was a defined acronym 01:42PM
12 apply universally across all vendors; right? 01:39PM	12 in the actual IEEE standard while you were working on 01:43PM
13 A Yes. 01:39PM	13 Phase I of the LLDP project; correct? 01:43PM
14 Q So that means that a network administrator and 01:39PM	14 MR CANNON: Objection: vague 01:43PM
15 engineers can use the same SNMP inquiries for different 01:39PM	
16 vendor products; correct? 01:39PM	16 BY MR WONG: 01:43PM
17 A Correct, if they are connect interconnected. 01:39PM	17 Q If you turn the page to page 6 01:43PM
18 Q And what's the advantage of what's the 01:39PM	18 A Mm-hnm 01:43PM
19 advantage to a network administrator to be able to use 01:40PM	
-	19 Q entry 3 21
20 the same SNMP inquiries for different vendor products? 01:40PN	
MR. CANNON: Objection; vague, lacks foundation, 01:40P	
22 calls for improper opinion testimony. 01:40PM	22 Q It says, "type, length, value (TLV)" 01:43PM
THE WITNESS: If a certain topology or deployment 01:40Pl	
24 includes multiple inputs equipment from multiple 01:40PM	24 A Yes 01:43PM
25 vendors, they don't have to tear that apart and replace 01:40PM Page 147	25 Q You were aware, by Stage 1 or at least Stage 2 of 01:43PM Page 149
Page 147	Page 149

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1 Phase 1 of the LLDP project, that the IEEE standard for 01:43PM	M 1 that? 01:45PM
2 LLDP defined the acronym TLV; correct? 01:43PM	2 MR. WONG: I'll tell you once I see it. Yes, 01:45PM
3 MR. CANNON: Objection; vague, mischaracterizes 01:431	PM 3 page 39. Control number is ends in 17959. 01:46PM
4 the document. 01:43PM	4 Q Are you there? 01:46PM
5 THE WITNESS: Yes. 01:43PM	5 A Yeah, I am. 01:46PM
6 BY MR. WONG: 01:43PM	6 Q So Section 10.3.4 is called "Too many neighbors." 01:46PM
7 Q In fact, on page 7 of Exhibit 315, at the very 01:43PM	7 Do you see that? 01:46PM
8 top, it's a section called "Acronyms and abbreviations"; 01:43PM	8 A Mm-hmm. 01:46PM
9 correct? 01:43PM	9 Q Now, we were talking earlier about the use of the 01:46PM
10 A Yes. 01:43PM	10 word "neighbors" in the functional specification that 01:46PM
11 Q And both LLDP and TLV are listed as defined 01:43PM	
12 acronyms within the IEEE LLDP standard; right? 01:43PM	
13 A Yes. 01:44PM	13 Q right? 01:46PM
14 Q And you were aware of that before you began the 01:44PM	
15 design stage for Phase 1 of the LLDP project; right? 01:44PM	15 Q Is this use of the word "neighbors" here in the 01:46PM
16 A Yes. 01:44PM	16 IEEE specification the the same use of the word 01:46PM
17 Q And you were aware of that during the design 01:44PM	17 "neighbors" that you were using in the functional 01:46PM
18 period for the LLDP project; correct? 01:44PM	18 specification? 01:46PM
19 A Yes. 01:44PM	19 MR. CANNON: Objection; vague. 01:46PM
20 Q And if you look at Exhibit 316, which is this 01:44PM	20 THE WITNESS: I was I read this specification 01:46PM
21 list of commands? 01:44PM	21 thoroughly, so 1 yeah, I was influenced by some of 01:46PM
22 A Okay. 01:44PM	22 the language in here. 01:47PM
23 Q Are you there? 01:44PM	23 BY MR. WONG: 01:47PM
Each of the commands associated with you include 01:44PM	24 Q But you you became familiar with the 01:47PM
25 the acronym LLDP. 01:44PM	25 terminology relevant to LLDP by reading the IEEE 01:47PM
Page 150	Page 152
l Do you see that? 01:44PM	1 standard on LLDP; right? 01:47PM
2 A Yes 01:44PM	2 MR. CANNON: Objection; vague. 01:47PM
3 Q That LLDP is the same LLDP that is defined within 01:44PM	3 THE WITNESS: Yes. 01:47PM
4 the IEEE LLDP standard; right? 01:44PM	4 BY MR. WONG: 01:47PM
5 MR CANNON: Objection; vague 01:44PM	5 Q And in particular here, you were aware that the 01:47PM
6 THE WITNESS: It's yeah, it it refers to 01:44PM	6 term "neighbors" was used in the IEEE LLDP standard; 01:47PM
7 the Link Layer Discovery Protocol 01:44PM	
	7 right? 01:47PM
8 BY MR WONG: 01:45PM	
8 BY MR WONG: 01:45PM	8 A Mm-hmm. 01:47PM
8 BY MR WONG: 01:45PM 9 Q I mean, that's the same acronym that appears here 01:45PM	8 A Mm-hmm. 01:47PM 9 MR. CANNON: Objection; vague. 01:47PM
8 BY MR WONG: 01:45PM 9 Q I mean, that's the same acronym that appears here 01:45PM 0 on page 7 of Exhibit 315; right? Under "Acronyms and 01:45PM	8 A Mm-hmm. 01:47PM 9 MR. CANNON: Objection; vague. 01:47PM 10 BY MR. WONG: 01:47PM
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8 BY MR WONG: 01:45PM 9 Q I mean, that's the same acronym that appears here 01:45PM 0 on page 7 of Exhibit 315; right? Under "Acronyms and 01:45PM 1 abbreviatious" within the IEEE standard; correct? 01:45PM 2 MR CANNON: Objection; documents speak for 01:45PM 3 themselves 01:45PM 4 THE WITNESS: Yes 01:45PM 5 BY MR WONG: 01:45PM 6 Q And your choice of LLDP in each of the commands 01:45PM 7 listed on Exhibit 316, that was intentionally meant to 01:45PM 8 refer to the LLDP acronym within the IEEE standard; 01:45PM 9 right? 01:45PM	8 A Mm-hmm. 01:47PM 9 MR. CANNON: Objection; vague. 01:47PM 10 BY MR. WONG: 01:47PM 11 Q Oh, I'm sorry, can you let me let me ask 01:47PM 12 the question one more time. 01:47PM 13 And in particular here, Section 10.3.4 of 01:47PM 14 Exhibit 315, you were aware that the term "neighbors" 01:47PM 15 was used in the IEEE LLDP standard, yes? 01:47PM 16 MR. CANNON: Objection; vague. 01:47PM 17 THE WITNESS: Yes. 01:47PM 18 BY MR. WONG: 01:47PM 19 Q Can you turn to page or Section 5.2, please, 01:48PM
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8 BY MR WONG: 01:45PM 9 Q I mean, that's the same acronym that appears here 01:45PM 0 on page 7 of Exhibit 315; right? Under "Acronyms and 01:45PM 1 abbreviations" within the IEEE standard; correct? 01:45PM 2 MR CANNON: Objection; documents speak for 01:45PM 3 themselves 01:45PM 4 THE WITNESS: Yes 01:45PM 5 BY MR WONG: 01:45PM 6 Q And your choice of LLDP in each of the commands 01:45PM 7 listed on Exhibit 316, that was intentionally meant to 01:45PM 8 refer to the LLDP acronym within the IEEE standard; 01:45PM 9 right? 01:45PM 0 MR CANNON: Objection; vague 01:45PM 1 THE WITNESS: Yes 01:45PM	8 A Mm-hmm. 01:47PM 9 MR. CANNON: Objection; vague. 01:47PM 10 BY MR. WONG: 01:47PM 11 Q Oh, I'm sorry, can you let me let me ask 01:47PM 12 the question one more time. 01:47PM 13 And in particular here, Section 10.3.4 of 01:47PM 14 Exhibit 315, you were aware that the term "neighbors" 01:47PM 15 was used in the IEEE LLDP standard, yes? 01:47PM 16 MR. CANNON: Objection; vague. 01:47PM 17 THE WITNESS: Yes. 01:47PM 18 BY MR. WONG: 01:47PM 19 Q Can you turn to page or Section 5.2, please, 01:48PM 20 of Exhibit 315, and that is page 8. 01:48PM 21 Are you there? 01:48PM
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8 BY MR WONG: 01:45PM 9 Q I mean, that's the same acronym that appears here 01:45PM 0 on page 7 of Exhibit 315; right? Under "Acronyms and 01:45PM 1 abbreviations" within the IEEE standard; correct? 01:45PM 2 MR CANNON: Objection; documents speak for 01:45PM 3 themselves 01:45PM 4 THE WITNESS: Yes 01:45PM 5 BY MR WONG: 01:45PM 6 Q And your choice of LLDP in each of the commands 01:45PM 7 listed on Exhibit 316, that was intentionally meant to 01:45PM 8 refer to the LLDP acronym within the IEEE standard; 01:45PM 9 right? 01:45PM 0 MR CANNON: Objection; vague 01:45PM 1 THE WITNESS: Yes 01:45PM 1 THE WITNESS: Yes 01:45PM 2 BY MR WONG: 01:45PM 3 Q If you look at Section 10 3 4 of Exhibit 315 01:45PM	8 A Mm-hmm. 01:47PM 9 MR. CANNON: Objection; vague. 01:47PM 10 BY MR. WONG: 01:47PM 11 Q Oh, I'm sorry, can you let me let me ask 01:47PM 12 the question one more time. 01:47PM 13 And in particular here, Section 10.3.4 of 01:47PM 14 Exhibit 315, you were aware that the term "neighbors" 01:47PM 15 was used in the IEEE LLDP standard, yes? 01:47PM 16 MR. CANNON: Objection; vague. 01:47PM 17 THE WITNESS: Yes. 01:47PM 18 BY MR. WONG: 01:47PM 19 Q Can you turn to page or Section 5.2, please, 01:48PM 20 of Exhibit 315, and that is page 8. 01:48PM 21 Are you there? 01:48PM 22 A Yes. 01:48PM 23 Q Section 5.2 on page 8 of Exhibit 315 says 01:48PM

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1 A Yes 01:48PM	1 Q So the LLDP implementation that you worked on at 01:50Pl
2 Q And under that, it says, "A system for which 01:48PM	2 Cisco and, in particular, Phase 1 supported a 01:50PM
3 conformance to this standard is claimed shall, for all 01:48PM	3 transmit-only operating mode? 01:50PM
4 ports for which support is claimed, include the 01:48PM	4 A Yes. I don't recall the I don't remember it 01:51PM
5 following capabilities," and then it lists items a 01:48PM	5 very clearly, but, yes. 01:51PM
6 through k 01:48PM	6 Q Okay. And did it also support a receive only 01:51PM
7 Do you see that? 01:48PM	7 excuse me. 01:51PM
8 A Yes 01:48PM	8 Did it also support a receive-only operating 01:51PM
9 MR CANNON: Objection; mischaracterizes the 01:48PM	9 mode? 01:51PM
10 document 01:48PM	10 MR. CANNON: Objection; vague, lacks foundation. 01:51Pl
11 BY MR WONG: 01:48PM	11 THE WITNESS: Let me take a moment. Yes. 01:51PM
12 Q Did I read that correctly, Mr Patil? 01;48PM	12 BY MR. WONG: 01:51PM
13 MR CANNON: Objection; mischaracterizes the 01:48PM	13 Q And did it also support a transmit and receive 01:51PM
14 document 01:48PM	14 operating mode? 01:51PM
15 THE WITNESS: You did 01:48PM	MR. CANNON: Objection; vague, lacks foundation. 01:51Ph
16 BY MR WONG: 01:48PM	16 THE WITNESS: Yes. 01:51PM
17 Q And did the Cisco products for which you worked 01:49PM	17 BY MR. WONG: 01:51PM
18 on the LLDP implementation conform to the standard 01:49PM	18 Q And each of those features that we just talked 01:51PM
19 marked as Exhibit 315? 01:49PM	19 about, those were implemented as part of Phase 1 of the 01:51PM
20 MR CANNON: Objection; vague, lacks foundation, 01:49PM	20 LLDP project that you worked on, Mr. Patil? 01:51PM
21 calls for improper opinion testimony 01:49PM	21 MR. CANNON: Objection; vague. 01:51PM
22 MR WONG: Let me rephrase the question 01:49PM	22 THE WITNESS: Yes. 01:51PM
23 Q Were the required capabilities listed in 01:49PM	23 BY MR. WONG: 01:51PM
24 Section 5 2 of Exhibit 315 implemented when you did the 01:49PM	24 Q If you turn to page 43 of Exhibit 315 let me 01:52PM
25 LLDP implementation for Cisco's products? 01:49PM	25 know when you are there. 01:52PM
Page 154	· ·
I MR CANNON: Objection; vague, compound, lacks 01:49PM	1 A Yes 01:52PM
2 foundation, and calls for improper opinion testimony 01:49PM	2 Q section 10 5 2 is called "Statistical 01:52PM
3 THE WITNESS: I don't know how many are specific 01:49PM	3 counters " 01:52PM
4 deal with are implemented, but the focus was to be as 01:49PM	4 Do you see that? 01:52PM
5 compliant as possible 01:49PM	5 A Yes 01:52PM
6 BY MR WONG: 01:49PM	6 Q And, under that, it says, "Statistical counters 01:52PM
7 Q If you look at subsection i under Section 5 2 01:49PM	7 shall be provided to accumulate operational statistics 01:52PM
8 A Yes 01:50PM	8 on a per-port basis " 01:52PM
9 Q it says, "The protocol shall conform to the 01:50PM	9 Do you see that? 01:52PM
10 specifications for all Clause 10 subclauses indicated in 01:50PM	10 A Yes 01:52PM
11 Table 10-1 for the particular operating mode," and then 01:50PM	11 Q Is it your understanding that the support of 01:52PM
12 in parentheses it has "transmit only, receive only, or 01:50PM	12 statistical counters is required by the IEEE LLDP 01:52PM
13 transmit aud receive," close parentheses, "being 01:50PM	13 standard? 01:52PM
I4 implemented " 01:50PM	I4 MR CANNON: Objection; vague, lacks foundation, 01:52PM
Do you see that? 01:50PM	15 calls for improper opinion testimony 01:52PM
16 A Yes 01:50PM	16 THE WITNESS: Can you repeat the question again? 01:52PM
17 Q Did I read that correctly? 01;50PM	17 MR WONG: Sure 01:52PM
18 A Yes 01:50PM	I8 Q Is it your understanding that providing 01:52PM
19 Q Did the LLDP implementation that you worked on at 01:50PM	19 statistical counters is a requirement of complying with 01:52PM
20 Cisco include this capability described by subsection i 01;50PM	20 the IEEE LLDP standard? 01:53PM
21 under Section 5 2? 01:50PM	21 MR CANNON: Same objections 01:53PM
22 MR CANNON: Objection; vague, lacks foundation, 01:50PM	22 THE WITNESS: Yes 01:53PM
23 calls for improper opinion testimony 01:50PM	23 BY MR WONG: 01:53PM
24 THE WITNESS: Yes, it included 01:50PM	24 Q And did you, in fact, support statistical 01:53PM
VIAVITI	The dia your arrang support surrouval VI, 201 III
25 BY MR WONG: 01:50PM	25 counters when you worked on the LLDP implementation at 01:53PM

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CONTIL	JUNITAL
1 Cisco? 01:53PM	1 Do you see that? 01:56PM
2 MR CANNON: Same objections 01:53PM	2 A Yes. 01:56PM
3 THE WITNESS: Yes 01:53PM	3 Q What are "MIB tables"? 01:56PM
4 BY MR WONG: 01:53PM	4 A So "MIB tables" are the the storage that make 01:56PM
5 Q Now, you were looking at Exhibit 316 while you 01:53PM	5 SNMP queries possible, so MIBs are essentially 01:56PM
6 were confirming your answer; correct? 01:53PM	6 support information for SNMP. 01:56PM
7 A That's correct 01:53PM	7 Q And so are are the tables different from the 01:56PM
8 Q What what were you looking for in Exhibit 316 01:53PM	8 MIBs themselves? 01:56PM
9 to confirm your answer? 01:53PM	9 A MIBs MIB tables are like the blueprint for the 01:56PM
10 MR CANNON: Objection; mischaracterizes 01:53PM	10 actual tables I'm sorry, MIB tables are the blueprint 01:56PM
11 testimony 01:53PM	11 for the actual MIB data, if that makes sense. 01:56PM
12 THE WITNESS: I was looking at the CL1 I 01:53PM	12 Q MIB tables I'm sorry, can you explain that? 01:56PM
13 vaguely recalled that I supported that, but I was 01:53PM	13 So let me let me ask the question again. 01:57PM
14 looking at the the list of CLIs here to to confirm 01:53PM	14 How strike that. 01:57PM
15 that it it was in Phase I 01:54PM	15 Are tables different from the MIBs themselves? 01:57PM
16 BY MR WONG: 01:54PM	16 A In in the and I have not used this language 01:57PM
17 Q And which CLI command did you look at to confirm 01:54PM	17 for a long time, and I've not used SNMP in a long time, 01:57PM
18 that the support of counters was included in Phase 1 of 01:54PM	18 but my understanding is that the language of SNMP in 01:57PM
19 the LLDP project? 01:54PM	19 the language of SNMP, the MIB table is like a blueprint. 01:57PM
20 MR CANNON: Objection; vague, mischaracterizes 01:54PM	20 It's called the data that is housed in the MIB. 01:57PM
21 testimony 01:54PM	21 Q And the the term "MIB table," that is that 01:57PM
22 THE WITNESS: I just confirmed that "show lldp 01:54PM	22 a term that is familiar to those in networking industry? 01:57PM
23 traffic" does exist in this table so that I can answer 01:54PM	23 MR. CANNON: Objection; vague, lacks foundation, 01:57PM
24 you 01:54PM	24 calls for improper opinion testimony. 01:57PM
25 BY MR WONG: 01:54PM	25 THE WITNESS: Yes. 01:57PM
Page 158	Page 160
1 Q If you turn to page 49 of Exhibit 315 let me 01:54PM	1 BY MR, WONG: 01:57PM
2 know when you are there. 01:54PM	2 Q And you certainly know what a "MIB table" is if 01:57PM
3 A Yes. 01:54PM	3 you heard that term used; correct? 01:58PM
4 Q if you look under Section 11.2.2, it's called 01:54PM	4 A Yes. 01:58PM
5 "TLV selection management." 01:54PM	5 Q And you would understand what a "MIB table" is 01:58PM
6 Do you see that? 01:54PM	6 based upon your experience working in the networking 01:58PM
7 A Yes. 01:54PM	7 industry; correct? 01:58PM
8 Q What is "TLV selection management"? 01:54PM	8 A Yes. 01:58PM
9 A So some of the data that is sent in a discovery 01:54PM	9 Q What was the process at Cisco for selecting a 01:58PM
10 packet is mandatory, and some of it is optional, and 01:55PM	10 command syntax? And we can talk specifically about the 01:58PM
11 what the standard calls for is the ability to specify 01:55PM	11 commands listed on Exhibit 316 01:58PM
12 which of the optional TLVs the admin wants to send on a 01:55PM	12 A Mm-hmm. 01:58PM
13 particular port or suppress on a particular port, so 01:55PM	13 Q but so let me just rephrase the question, 01:58PM
14 that's what TLV selection management essentially means. 01:55PM	
15 Q And when you worked on Phase 1 of the LLDP 01:55PM	For the commands listed in Exhibit 316, what was 01:58PM
16 project at Cisco, did you include the ability for TLV 01:55PM	16 the process at Cisco for selecting the command syntax? 01:58PM
17 selection in that implementation? 01:55PM	MR. CANNON: Objection; vague, lacks foundation, 01:58PM
18 A Yes. 01:55PM	18 calls for speculation. 01:58PM
19 Q In that first paragraph below Section 11.2.2 in 01:55PM	19 THE WITNESS: Well, there is the the 01:58PM
	·
20 Exhibit 315 01:56PM	20 product owner, which is me, lead developer for the 01:58PM
	20 product owner, which is me, lead developer for the 01:58PM 21 product, comes up with initial proposal, and it is, 01:58PM
21 A Mm-hmm. 01:56PM	•
21 A Mm-hmm. 01:56PM 22 Q the second sentence says, "The following LLDP 01:56PM	21 product, comes up with initial proposal, and it is, 01:58PM
21 A Mm-hmm. 01:56PM 22 Q the second sentence says, "The following LLDP 01:56PM 23 variables cross reference to LLDP local systems 01:56PM	21 product, comes up with initial proposal, and it is, 01:58PM 22 essentially, reviewed by a group of people that are 01:58PM
21 A Mm-hmm. 01:56PM 22 Q the second sentence says, "The following LLDP 01:56PM 23 variables cross reference to LLDP local systems 01:56PM 24 configuration MIB tables," and then it there's a 01:56PM	21 product, comes up with initial proposal, and it is, 01:58PM 22 essentially, reviewed by a group of people that are 01:58PM 23 highly experienced for for usability and 01:59PM
21 A Mm-hmm. 01:56PM 22 Q the second sentence says, "The following LLDP 01:56PM 23 variables cross reference to LLDP local systems 01:56PM 24 configuration MIB tables," and then it there's a 01:56PM	21 product, comes up with initial proposal, and it is, 01:58PM 22 essentially, reviewed by a group of people that are 01:58PM 23 highly experienced for for usability and 01:59PM 24 extensibility, and so on, so there are certain criteria 01:59PM

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1 subcommands under certain at certain places, and 02:16PM 2 that that's that's what it means 02:16PM	1 Q Did you consider that guideline when you were 02:19PM 2 devising the command syntaxes listed on Exhibit 316? 02:19PM
3 Q And why is that important when coming up with a 02:16PM	3 MR CANNON: Objection; vague 02:19PM
4 command syntax? 02:16PM	4 THE WITNESS: Yes In general, yes 02:19PM
5 MR CANNON: Objection; yague, lacks foundation, 02:16PM	5 BY MR WONG: 02:19PM
6 incomplete hypothetical, calls for improper opinion 02:16PM	6 Q How important is the vocabul strike that 02:19PM
7 testimony 02:16PM	7 How important is is understanding the 02:19PM
8 THE WITNESS: To support extensibility in in 02:16PM	8 vocabulary of the intended user of a command to coming 02:19PM
9 general in the sense that we might do certain things in 02:17PM	9 up with a command syntax, in your view? 02:19PM
10 Phase 1 and we might plan to include more commands at a 02:17PM	10 MR CANNON: Objection; vague, lacks foundation, 02:19PM
11 certain level in in the command hierarchy at a later 02:17PM	11 calls for improper opinion testimony 02:19PM
12 phase, and that is if you know you already want to do 02:17PM	12 THE WITNESS: It's fairly important 02:19PM
13 that But sometimes we don't even know, and it's all 02:17PM	13 BY MR WONG: 02:20PM
14 the more pressing at that point to for for it to 02:17PM	14 Q Did you consider the vocabulary of the intended 02:20PM
15 be designed for extensibility 02:17PM	15 user of the LLDP functionality when you were coming up 02:20PM
16 BY MR WONG: 02:17PM	16 with the commands listed on Exhibit 316? 02:20PM
17 Q Did you consider extensibility when you were 02:17PM	17 MR CANNON: Objection; vague 02:20PM
18 proposing the command syntaxes for the commands listed 02:17PM	18 THE WITNESS: Yes 02:20PM
19 on Exhibit 316? 02:17PM	19 BY MR WONG: 02:20PM
20 MR CANNON: Objection; vague 02:17PM	20 Q Do you think it's important to have guidelines 02:20PM
21 THE WITNESS: Definitely, yes 02:17PM	21 for the addition of new commands to a command-line 02:20PM
22 BY MR WONG: 02:17PM	22 interface? 02:20PM
23 Q If you turn to page 4 of Exhibit 318, No 6 02:17PM	23 MR CANNON: Objection; vague, incomplete 02:20PM
	1
24 let me know when you are there 02:18PM	24 hypothetical, lacks foundation, calls for improper 02:20PM
25 A Okay 02:18PM Page 170	25 opinion testimony 02:20PM Page 172
1 Q it says, "When naming a command, try to pick 02:18PM	1 THE WITNESS: Yes. 02:20PM
2 names that would be familiar to people in the industry " 02:18PM	2 BY MR. WONG: 02:20PM
3 Do you see that? 02:18PM	3 Q Why do you think it's important to have 02:20PM
3 Do you see that? 02:18PM	3 Q Why do you think it's important to have 02:20PM
3 Do you see that? 02:18PM 4 A Yes 02:18PM	3 Q Why do you think it's important to have 02:20PM 4 guidelines for the addition of new commands to a 02:20PM
3 Do you see that? 02:18PM 4 A Yes 02:18PM 5 Q When you came up with the commands listed on 02:18PM 6 Exhibit 316, did you try to pick names that would be 02:18PM	3 Q Why do you think it's important to have 02:20PM 4 guidelines for the addition of new commands to a 02:20PM 5 command-line interface? 02:20PM 6 MR. CANNON: Same objections. 02:20PM
3 Do you see that? 02:18PM 4 A Yes 02:18PM 5 Q When you came up with the commands listed on 02:18PM 6 Exhibit 316, did you try to pick names that would be 02:18PM 7 familiar to people in the industry? 02:18PM	3 Q Why do you think it's important to have 02:20PM 4 guidelines for the addition of new commands to a 02:20PM 5 command-line interface? 02:20PM 6 MR. CANNON: Same objections. 02:20PM 7 THE WITNESS: The primary reason is the inability 02:20PM
3 Do you see that? 02:18PM 4 A Yes 02:18PM 5 Q When you came up with the commands listed on 02:18PM 6 Exhibit 316, did you try to pick names that would be 02:18PM 7 familiar to people in the industry? 02:18PM 8 MR CANNON: Objection; vague 02:18PM	3 Q Why do you think it's important to have 02:20PM 4 guidelines for the addition of new commands to a 02:20PM 5 command-line interface? 02:20PM 6 MR. CANNON: Same objections. 02:20PM 7 THE WITNESS: The primary reason is the inability 02:20PM 8 to reverse commands and the need for backward 02:21PM
3 Do you see that? 02:18PM 4 A Yes 02:18PM 5 Q When you came up with the commands listed on 02:18PM 6 Exhibit 316, did you try to pick names that would be 02:18PM 7 familiar to people in the industry? 02:18PM 8 MR CANNON: Objection; vague 02:18PM 9 THE WITNESS: Yes 02:18PM	3 Q Why do you think it's important to have 02:20PM 4 guidelines for the addition of new commands to a 02:20PM 5 command-line interface? 02:20PM 6 MR. CANNON: Same objections. 02:20PM 7 THE WITNESS: The primary reason is the inability 02:20PM 8 to reverse commands and the need for backward 02:21PM 9 compatibility at every stage of the product evolution. 02:21PM
3 Do you see that? 02:18PM 4 A Yes 02:18PM 5 Q When you came up with the commands listed on 02:18PM 6 Exhibit 316, did you try to pick names that would be 02:18PM 7 familiar to people in the industry? 02:18PM 8 MR CANNON: Objection; vague 02:18PM 9 THE WITNESS: Yes 02:18PM 10 BY MR WONG: 02:18PM	3 Q Why do you think it's important to have 02:20PM 4 guidelines for the addition of new commands to a 02:20PM 5 command-line interface? 02:20PM 6 MR. CANNON: Same objections. 02:20PM 7 THE WITNESS: The primary reason is the inability 02:20PM 8 to reverse commands and the need for backward 02:21PM 9 compatibility at every stage of the product evolution. 02:21PM 10 And that calls for basically putting out commands in a 02:21PM
3 Do you see that? 02:18PM 4 A Yes 02:18PM 5 Q When you came up with the commands listed on 02:18PM 6 Exhibit 316, did you try to pick names that would be 02:18PM 7 familiar to people in the industry? 02:18PM 8 MR CANNON: Objection; vague 02:18PM 9 THE WITNESS: Yes 02:18PM 10 BY MR WONG: 02:18PM	3 Q Why do you think it's important to have 02:20PM 4 guidelines for the addition of new commands to a 02:20PM 5 command-line interface? 02:20PM 6 MR. CANNON: Same objections. 02:20PM 7 THE WITNESS: The primary reason is the inability 02:20PM 8 to reverse commands and the need for backward 02:21PM 9 compatibility at every stage of the product evolution. 02:21PM 10 And that calls for basically putting out commands in a 02:21PM 11 manner that is backward compatible and extensible. 02:21PM
Do you see that? 02:18PM A Yes 02:18PM Q When you came up with the commands listed on Exhibit 316, did you try to pick names that would be marked by the commands listed on marked by the commands listed on 02:18PM MR CANNON: Objection: vague 02:18PM THE WITNESS: Yes 02:18PM BY MR WONG: 02:18PM Q And did you try to use accepted industry acronyms 02:18PM When coming up with the commands listed in Exhibit 316? 02:18PM	3 Q Why do you think it's important to have 02:20PM 4 guidelines for the addition of new commands to a 02:20PM 5 command-line interface? 02:20PM 6 MR. CANNON: Same objections. 02:20PM 7 THE WITNESS: The primary reason is the inability 02:20PM 8 to reverse commands and the need for backward 02:21PM 9 compatibility at every stage of the product evolution. 02:21PM 10 And that calls for basically putting out commands in a 02:21PM 11 manner that is backward compatible and extensible. 02:21PM 12 BY MR. WONG: 02:21PM
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)
1 hierarchy. 02:38PM 2 If you want a strict hierarchy, you would have an 02:38PM 3 intermediate node and list all the specific options, but 02:38PM 4 since there aren't any, I might have taken this 02:38PM 5 position; although, it's it's it may seem a little 02:38PM 6 bit weak for in terms of future-proofing things. 02:38PM 7 So there's a there's a there's a balance 02:39PM 8 between future-proofing and and verbosity, and and 02:39PM	l come up with the syntax of "clear lldp counters"? 02:42PM MR. CANNON: Objection; vague. 02:42PM THE WITNESS: Oh, just that one command? 02:42PM MR. WONG: Mm-hmin. 02:42PM THE WITNESS: I don't know, 15 minutes. 02:42PM BY MR. WONG: 02:42PM Q Okay. How long did it take you, approximately, 02:42PM to do the source code writing to implement the 02:42PM
9 the more you try to feature-proof, the more verbose you 02:39PM 10 can become, so it's more of a subjective column how you 02:39PM 11 design, keeping all of these in mind, yeah. 02:39PM 12 Q Thank you. 02:39PM 13 And after letter "d" on Exhibit 321, you say, 02:39PM 14 quote: It is more intuitive for first-time users, end 02:39PM 15 quote. 02:39PM 16 Do you see that? 02:39PM 17 A Yes. 02:39PM 18 Q What did you mean by that? 02:39PM 19 A This means that that user interface should 02:39PM 20 flow naturally in a sense that if I've never used 02:39PM 21 anything similar, I should be pretty much able to I 02:39PM	MR. CANNON: Objection; vague, assumes facts not 02:42PM 11 in evidence. 02:42PM 12 THE WITNESS: Okay. That would be, again, 02:42PM 13 15 minutes, and I have to add that this is a easiest one 02:42PM 14 to implement. 02:42PM 15 BY MR. WONG: 02:42PM 16 Q For the "clear lldp table" command 02:42PM 17 A Mm-hmm. 02:42PM 18 Q what functionality does that perform? 02:43PM 19 A That is, again, a reset, but more at the enable 02:43PM 20 level in the sense that, let's say, a device comes up 02:43PM 21 and it discovers ten neighbors and we want to come in 02:43PM
22 should be able to come in and type in a reasonable 02:39PM 23 keyword for things and get help on it and be able to 02:40PM 24 complete a configuration within a reasonable amount of 02:40PM 25 time rather than going through hours of research on it. 02:40PM Page 186 1 Q And that approach that you just described, did 02:40PM 2 you apply that approach for the commands that are listed 02:40PM 3 in Exhibit 316? 02:40PM	22 and manually reset the table by making it forget all 02:43PM 23 those ten neighbors instantly, then we would use that 02:43PM 24 command. 02:43PM 25 Q And approximately how long did it take you to 02:43PM Page 188 1 come up with the syntax of "clear lldp table"? 02:43PM 2 MR CANNON: Objection; vague 02:43PM 3 THE WITNESS: The answer would be very similar to 02:43PM
MR. CANNON: Objection; vague. 02:40PM THE WITNESS: The what is 316? This is the 02:40PM one okay. This it it certainly influenced our 02:40PM structure for these commands. Yeah, so intuitiveness, 02:40PM extensibility, usability, aesthetics are all factors 02:40PM that we considered. 02:40PM MR. WONG: 02:41PM URL Let's look at Exhibit 316 now, Mr. Patil. 02:41PM A Yeah. 02:41PM	4 the other "clear" command 02:43PM 5 BY MR WONG: 02:43PM 6 Q About 15 minutes? 02:43PM 7 A Yes 02:43PM 8 Q And did it take you also about 15 minutes to 02:43PM 9 write the underlying source code for the functionality 02:43PM 10 of the "clear lldp table" command? '02:43PM 11 A No 02:43PM 12 Q How long, approximately, did it take you to come 02:43PM
13 Q Starting with the first command, you were 14 associated with "clear lldp counters." 15 Do you see that? 16 A Yes. 17 Q What function does the "clear lldp counters" 18 command perform? 19 A It's basically a reset, if you will, of all the 02:41PM 20 statistics that have been accumulated over a period of 02:41PM 21 time, and if you want to start off on a clean slate 02:41PM 22 again at a certain period of time on a on a certain 02:41PM	13 up with the strike that 02:43PM 14 How long, approximately, did it take you to write 02:43PM 15 the source code for the "clear lldp table" command? 02:43PM 16 MR CANNON: Objection; vague 02:44PM 17 THE WITNESS: I can't quantify it readily, but it 02:44PM 18 would be, if you tally the total time spent on it, maybe 02:44PM 19 a couple hours, because there is dependencies to handle 02:44PM 20 It's not as easy as setting a bunch of numbers to zero 02:44PM 21 BY MR WONG: 02:44PM 22 Q And for all of the commands listed on 02:44PM
23 router or switch, then you could issue that command and 02:42PM 24 it will clear all the statistics. 02:42PM 25 Q And how long did it take you, approximately, to 02:42PM Page 187	23 Exhibit 316, Mr Patil, can you describe for me, 02:44PM 24 generally, what type of source code you would need to 02:44PM 25 write to implement the functionality? 02:44PM Page 189

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1 MR CANNON: Objection; compound, vague, lacks 02:44PM 2 foundation, incomplete hypothetical, calls for improper 02:44PM 3 opinion testimony 02:44PM 4 THE WITNESS: So to clarify the question, what 02:44PM 5 type of code needs to be written to clear the command 02:44PM 6 for the "clear" commands? 02:44PM 7 MR WONG: No, no 02:44PM 8 Q So, for example, you know, to write the source 02:44PM 9 code for any of these commands listed on Exhibit 316 02:44PM 10 A Yeal 02:44PM 11 Q what are the types of source code that would 02:44PM 12 need to be written in order to implement them? 02:45PM 13 MR CANNON: Objection; compound, vague, lacks 02:45PM 14 foundation, incomplete hypothetical, calls for improper 02:45PM 15 opinion testimony 02:45PM 16 THE WITNESS: The source code is written in C 02:45PM 17 C language, and, essentially, all these commands have a 02:45PM 18 callback which can be implemented as a C function, and 02:45PM 19 whenever a user travels to a certain point and they pass 02:45PM 20 tree, that function that gets attached to that node in 02:45PM 21 the tree gets executed, and, basically, it's it's 02:45PM 22 given the information about the construct that it's 02:45PM	1 MR CANNON: And because of that, we are going to 02:47PM 2 have a standing objection to questions about this 02:47PM 3 partial document without the sufficient context for it 02:47PM 4 to be reviewed or understood 02:47PM 5 BY MR WONG: 02:47PM 6 Q Now, Mr Patil, I'm just providing this exhibit 02:47PM 7 for you so that you can refresh your recollection, if 02:48PM 8 you need to 02:48PM 9 A Mm-hmm 02:48PM 10 Q about what these various commands do I won't 02:48PM 11 ask you any other questions about this exhibit, but feel 02:48PM 12 free to refer to Exhibit 322 02:48PM 13 A Yeal
23 handling, and, at that point, they they just we 02:45PM	23 THE WITNESS: after reading, 1 still cannot 02:48PM
24 just go in and change the fields in there 02:45PM	24 completely understand why we did that or what the 02:48PM
25 BY MR WONG: 02:45PM	25 concept is, because it's been a while since I wrote this 02:48PM
Page 190	Page 192
1 1 O And that explanation you just provided applies to 02:45PM	
2 all of the commands listed here on Exhibit 316; correct? 02:45PM 3 A Yes. 02:45PM 4 MR. CANNON: Objection; vague, compound. 02:45PM 5 BY MR. WONG: 02:45PM 6 Q What is the functionality performed by the "Ildp 02:46PM 7 holdtime" command? 02:46PM 8 A Yeah, so that's an interesting one. It's a 02:46PM 9 subtle one, and I being that it's ten years since I 02:46PM 10 wrote this, I've forgotten that, but it's it's kind 02:46PM 11 of technical detail on LLDP that I can look up if you 02:46PM 12 want, but 02:46PM 13 MR. WONG: Maybe this will help you. 02:46PM 14 What's the next exhibit number? 02:46PM 15 THE REPORTER: 322. 02:47PM 16 (Exhibit 322 was marked for 02:47PM 17 identification by the Court Reporter.) 02:47PM	1 and I've not used it for a long time 02:48PM 2 But I think it's a request from the sender to the 02:49PM 3 receiver to hold neighbor information, at least for a 02:49PM 4 certain period of time, regardless of whether they get 02:49PM 5 utilized That's my understanding 02:49PM 6 BY MR WONG: 02:49PM 7 Q And how long, approximately, did it take you to 02:49PM 8 cone up with the syntax for the "Ildp holdtime" command? 02:49PM 9 MR CANNON: Objection; vague 02:49PM 10 THE WITNESS: The actual the command itself? 02:49PM 11 MR WONG: The actual yes, the syntax of the 02:49PM 12 command 02:49PM 13 MR CANNON: Objection; vague 02:49PM 14 THE WITNESS: 15 minutes 02:49PM 15 BY MR WONG: 02:49PM 16 Q Is your answer 15 minutes for all of the commands 02:49PM 17 listed in Exhibit 316? 02:49PM
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1 0 And have law did it take for each to see the 02 500M	
1 Q And how long did it take for you to come up with 02:50PM	1 than 15 minutes for you to come up with the command 02:52PM
2 the syntax for that command? 02:50PM	2 syntax, setting aside the "lldp transmit" and "lldp 02:52PM
3 MR. CANNON: Objection; vague. 02:50PM	3 receive" commands. 02:52PM
4 THE WITNESS: Several hours because that's where 02:50Pl	4 A Right. 02:52PM
5 we went back and forth on the extensibility, usability, 02:50PM	5 "Tlv-select." Some of the org-specific ones 02:52PM
6 redundancy, verbosity, and those discussions. 02:50PM	6 are they are just basically the they they are 02:53PM
7 BY MR. WONG: 02:50PM	7 straight up describing what they are, so that shouldn't 02:53PM
8 Q What is the function performed by the "Ildp 02:50PM	8 have been long. 02:53PM
9 reinit" command? 02:50PM	9 I would say "tlv-select," "transmit" and 02:53PM
10 A It specifies the amount of wait time for the 02:50PM	10 "receive," and maybe even "rate" command. Significant 02:53PM
11 protocol to reinitialize at any point in time. 02:50PM	11 thought process involved in in coming up with the 02:53PM
12 Q And how long did it take for you to come up with 02:50PM	12 right keywords. 02:53PM
13 the command syntax for the "Ildp reinit" command? 02:50PM	13 Q I'm sorry, did you say "rate command"? 02:53PM
14 MR. CANNON: Objection; vague. 02:50PM	14 A Yeah, "Ildp rate." 02:53PM
15 THE WITNESS: That's that one is in the 02:50PM	15 Q Oh, okay. So I'm looking at Exhibit 316, and I 02:53PM
16 15-minute category. 02:50PM	16 do not believe the "rate" command 02:53PM
17 BY MR. WONG: 02:50PM	17 A Oh, oh, I see 02:53PM
18 Q Did it also take you approximately 15 minutes to 02:51PM	18 Q is is part of that. 02:53PM
19 come up with the "Ildp run" command? And I'm referring 02:51Pl	
20 to the command syntax. 02:51PM	20 So among 316, I would say 02:53PM
21 MR. CANNON: Objection; vague. 02:51PM	21 Q Let me just ask the fresh question so that it's 02:53PM
22 THE WITNESS: "Lldp run," yes. 02:51PM	22 clear 02:53PM
23 BY MR. WONG: 02:51PM	23 A Yes. 02:53PM
24 Q Did it also take you 15 minutes to come up with 02:51PM	24 Q on the record. 02:53PM
25 the syntax for "Ildp timer"? 02:51PM Page 194	25 A Yes. 02:53PM Page 196
Page 194	rage 190
1 MR CANNON: Objection; vague 02:51PM	1 Q So for the commands listed on Exhibit 316 02:53PM
2 THE WITNESS: I don't know that one because I 02:51PM	2 A Yeah 02:53PM
3 I recall that some of these had a lot of discussion 02:51PM	3 Q which of the commands do you believe you spent 02:54PM
4 involved, and I I can clearly say that transmit and 02:51PM	4 more than 15 minutes on coming up with the command 02:54PM
	~ .
5 receive fell into that category 02:51PM	5 syntax? 02:54PM
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5 receive fell into that category 02:51PM	5 syntax? 02:54PM
5 receive fell into that category 02:51PM 6 BY MR WONG: 02:51PM	5 syntax? 02:54PM 6 A "Transmit" and "receive," the "show" commands, 02:54PM
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_		-т		
	1 Q When 03:42PM	1	to both of you 03:44PM	
	2 A Actually, I'm sorry, I take that back. I do have 03:42PM	2		
	3 a legal certificate I used to have a legal 03:42PM	3	•	:44PM
	4 certification. 03:42PM	4	3:45 p m This concludes today's testimony given by 03:44	PM
5	5 Q What kind of legal certi certification did 03:42PM	ı	Devadas Patil The total number of media used was four 03:4	
	6 you have? 03:42PM		and will be retained by Veritext LLC 03:44PM	
7		7	(TIME NOTED: 3:44 P M)	
8		8	,	
	9 law? 03:42PM	9		
10		10		
11		11		
	2 you were writing your master's thesis at MIT? 03:42PM	12		
13		13		
14		14		
	5 to SysDB? 03:42PM	15		
16		16		
	couple of them, but I've not reviewed them in detail. 03:42PM	17		
18		18		
	in an International Trade Commission investigation has 03:42PM	19		
	found that Arista's EOS software infringes Cisco patents 03:42PM	20		
	related to SysDB? 03:42PM	21		
22		22		
23		1		
	a few days ago. 03:43PM	24		
	BY MR. CANNON: 03:43PM	25		
23	Page 230	12.		Page 232
1	Q So you were not aware of that when you wrote your 03:43PM	1	I declare under penalty of perjury	
	master's thesis? 03:43PM	1	under the laws that the foregoing is	
3		ŀ	true and correct.	
4		4	the and correct.	
5		5	Executed on, 20,	
	weren't particularly happy sitting here today with the 03:43PM		at ,	
	"Ildp reinit" command? 03:43PM	7	at	·
8		8		
9		9		
	today? 03:43PM	10		
	A It's not about just today. I was not happy to 03:43PM	11		
11	begin with it to begin with, because I struggled with 03:43PM	12	DEVADAS PATIL	
	it a lot, and I couldn't come up with a nice term to 03:43PM	13	DEVADASTATE	
	mean reinit, reinitialize, and, yeah, that was the 03:43PM	14		
	source of my dissatisfaction with it. 03:43PM	15		
		16		
16	Q Do you recall alternatives to "reinit" that you 03:43PM considered at the time? 03:43PM	17		
	A I like I said, I spent 45 minutes on it, and 03:44PM	18		
18		19		
	that's the best I could come up with, and given the time 03:44PM pressure. I had to propose it and move with it. 03:44PM	20		
	* ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '			
21	MR. CANNON: Nothing further for me right now. 03:44PM	22		
22	MR. WONG: We're done. 03:44PM	23		
23	THE WITNESS: Great. 03:44PM	23		
24 25	MR. CANNON: Thank you very much. 03:44PM THE WITNESS: Not a problem. I hope it is useful 03:44PM	25		
25	Page 231	رے		Page 233

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1	I, the undersigned, a Certified Shorthand	
2	Reporter of the State of California, do hereby certify:	
3	That the foregoing proceedings were taken before	
4	me at the time and place herein set forth; that any	
5	witnesses in the foregoing proceedings, prior to	
6	testifying, were placed under oath; that a verbatim	
7	record of the proceedings was made by me using machine	
8	shorthand which was thereafter transcribed under my	
9	direction; further, that the foregoing is an accurate	
10	transcription thereof.	
11	I further certify that I am neither financially	
12	interested in the action nor a relative or employee of	
13	any attorney or any of the parties.	
14	IN WITNESS WHEREOF, I have this date subscribed	·
15	my name.	
16	Dated: March 2, 2016	
17		
18		
19		
20	<u> B</u>	
21	RACHEL FERRIER	
22	CSR No. 6948	
23		
24		
25	B 024	
	Page 234	
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Case 5:14-cv-05344-BLF Document 512-8 Filed 09/06/16 Page 95 of 122 HIGHLY CONFIDENTIAL - ATTORNEYS' EYES ONLY

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UNITED STATES DISTRICT COURT
 1
 2
                NORTHERN DISTRICT OF CALIFORNIA
                        SAN JOSE DIVISION
 3
 4
      CISCO SYSTEMS, INC. Case No.: 5:14-cv-05344-BLF(PSG)
 5
                    Plaintiff,
 6
           v.
 7
      ARISTA NETWORKS, INC.
 8
                   Defendants.
 9
10
11
12
         * HIGHLY CONFIDENTIAL - ATTORNEYS' EYES ONLY *
13
14
           VIDEOTAPED DEPOSITION OF PHILLIP REMAKER
15
                30(b)(6) FOR CISCO SYSTEMS, INC.
16
                     Palo Alto, California
17
                    Thursday, March 31, 2016
18
19
                             Volume 1
20
21
     Reported by:
22
     LESLIE JOHNSON
23
     RPR, CSR No. 11451
24
     Job No.: 2281749
25
     PAGES 1 - 216
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PHILLIP REMAKER 30(b)(6) for CISCO SYSTEMS, INC 10
CISCO SYSTEMS, INC Case No : 5:14-ev-05344-BLF(PSG)
Volume 1 BY MR. WONG 8 BY MR. WEUKOM 212
Plaintiff,
ARISTA NETWORKS, INC
ARISTA NETWORKS, INC
ARISTA NETWORKS, INC
ARISTA NETWORKS, INC Defendants
Defendants
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Exhibit 430 Amended Exhibit F Document Index; 11 40 pages 14 40 pages 15 16 40 pages 16 Exhibit 431 Amended Exhibit F, 44 pages 16 Exhibit 432 Binder labeled Bates Does Cited 15 16 16 16 17 17 18 19 19 19 19 19 19 19
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Palo Alto, California, beginning at 9:30 a m and ending at 4:14 p m, on Thursday, March 31, 2016, before at 4:14 p m, on Thursday, March 31, 2016, before LESLIE JOHNSON, Certified Shorthand Reporter No 11451
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LESLIE JOHNSON, Certified Shorthand Reporter No 11451 22 23 24 25 24 25 26 27 27 27 28 28 29 29 29 20 20 20 20 20
22 23 24 25 24 25 24 25 26 27 27 27 28 27 28 29 29 29 29 29 29 29
23
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Page 2 Page 2 Page 2 Page 2 Page 4 APPEARANCES: PAGE 4 APPEARANCES: PAGE 4 PHILLIP REMAKER, 30(b)(6) NUMBER DESCRIPTION PAGE Exhibit 436 E-mail dated 1/12/99 from Phillip 40 Remaker to Carl Schaefer, et al; Bates stamped CSI-CLI-00794351 to 95 Exhibit 437 E-mail dated 67/12/99 from Phillip 40 Remaker to Carl Schaefer, et al; Bates stamped CSI-CLI-00794351 to 95 Exhibit 437 E-mail dated 67/12/093 from Shaubin 80 Xie; Bates stamped CSI-CLI-00783473 to 81 Exhibit 438 Parser-Police Manifesto, version 6; 82 10 pages Exhibit 439 CLI Design and Review Guide: Bates 85 stamped CSI-CLI-02824651 to 719 Exhibit 449 E-mail thread, top e-mail dated 87 7/8/2005, from Jain Dhanendra; Bates stamped CSI-CLI-0807444 to 68 Exhibit 441 Interrogatory No 2 First Supplemental 98 Response - Exhibit C; 3 pages Exhibit 442 Document entitled "Show Inventory 104 Command"; Bates stamped CSI-CLI-610102 to 610105 To 610105 Exhibit 443 E-mail dated 12/6/2002 from Eric 114 Osborne; Bates stamped CSI-CLI-777457
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FOR PLAINTIFF CISCO SYSTEMS, INC.: 4 QUINN EMANUEL URQUHART & SULLIVAN LLP 5 BY: JOHN (JAY) NEUKOM, ESQ. 6 50 California Street, 22nd Floor 7 San Francisco, California 94111 8 (415)875-6600 9 johnneukom@quinnemanuel.com 9 johnneukom@quinnemanuel.com 10 FOR DEFENDANT ARISTA NETWORKS, INC.: 11 KEKER & VAN NEST LLP 12 BY: RYAN WONG, ESQ. 13 633 Battery Street 14 San Francisco, California 94111 15 (415)391-5400 16 rwong@kvn.com 17 ALSO PRESENT: 18 NUMBER DESCRIPTION PAGE Exhibit 436 E-mail dated 1/12/99 from Phillip 40 Remaker to Carl Schaefer, et al; Bates stamped CSI-CLI-00794351 to 95 Exhibit 437 E-mail dated 6/7/2003 from Shaubin 80 Xie; Bates stamped CSI-CLI-00783473 to 81 Exhibit 438 Parser-Police Manifesto, version 6; 82 10 pages Exhibit 439 CLI Design and Review Guide: Bates 85 stamped CSI-CLI-02824651 to 719 12 Exhibit 440 E-mail thread, top e-mail dated 87 7/8/2005, from Jain Dhanendra; Bates stamped CSI-CLI-00807444 to 68 Exhibit 441 Interrogatory No 2 First Supplemental 98 Response - Exhibit C; 3 pages Exhibit 442 Document entitled "Show Inventory 104 Command"; Bates stamped CSI-CLI-610102 to 610105 Exhibit 443 E-mail dated 12/6/2002 from Eric 114 Osborne: Bates stamped CSI-CLI-777457
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5 BY: JOHN (JAY) NEUKOM, ESQ. 6 Exhibit 437. E-mail dated 6/7/2003 from Shaubin Xie; Bates stamped CSI-CLI-00783473 to 81 80 7 San Francisco, California 94111 8 Exhibit 438. Parser-Police Manifesto, version 6; 82 82 10 FOR DEFENDANT ARISTA NETWORKS, INC.: 10 Exhibit 439. CLI Design and Review Guide: Bates stamped CSI-CLI-02824651 to 719 85 11 KEKER & VAN NEST LLP Exhibit 440. E-mail thread, top e-mail dated 87. 7/8/2005, from Jain Dhanendra; Bates stamped CSI-CLI-00807444 to 68 85 12 BY: RYAN WONG, ESQ. 13 Exhibit 441. Interrogatory No. 2 First Supplemental 98. Response - Exhibit C; 3 pages 8 14 San Francisco, California 94111 Exhibit 442. Document entitled "Show Inventory 104. Command"; Bates stamped CSI-CLI-610102 to 610105 Command"; Bates stamped CSI-CLI-610102 to 610105 16 rwong@kvn.com 16 Exhibit 443. E-mail dated 12/6/2002 from Eric 114 17 ALSO PRESENT: 17 Exhibit 443. E-mail dated 12/6/2002 from Eric 114
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7 San Francisco, California 94111 8 Exhibit 438 Parser-Police Manifesto, version 6; 82 8 (415)875-6600 9 9 johnneukom@quinnemanuel.com Exhibit 439 CLI Design and Review Guide; Bates 85 stamped CSI-CLI-02824651 to 719 10 FOR DEFENDANT ARISTA NETWORKS, INC.: 11 Exhibit 440 E-mail thread, top e-mail dated 87 7/8/2005, from Jain Dhanendra; Bates stamped CSI-CLI-00807444 to 68 82 12 BY: RYAN WONG, ESQ. 13 Exhibit 441 Interrogatory No 2 First Supplemental 98 Response - Exhibit C; 3 pages 14 San Francisco, California 94111 Exhibit 442 Document entitled "Show Inventory to 610105" 10 15 Command"; Bates stamped CSI-CLI-610102 to 610105 Exhibit 443 E-mail dated 12/6/2002 from Eric 114 16 rwong@kvn.com 16 Exhibit 443 E-mail dated 12/6/2002 from Eric 114 17 ALSO PRESENT: 17 Osborne; Bates stamped CSI-CLI-777457
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9 johnneukom@quinnemanuel.com 10 FOR DEFENDANT ARISTA NETWORKS, INC.: 11 KEKER & VAN NEST LLP 12 BY: RYAN WONG, ESQ. 13 633 Battery Street 14 San Francisco, California 94111 15 (415)391-5400 16 rwong@kvn.com 17 ALSO PRESENT: Exhibit 439 CLI Design and Review Guide: Bates 85 stamped CSI-CLI-02824651 to 719 Exhibit 440 E-mail thread, top e-mail dated 87 7/8/2005, from Jain Dhanendra; Bates stamped CSI-CLI-00807444 to 68 Exhibit 441 Interrogatory No 2 First Supplemental 98 Response - Exhibit C; 3 pages Exhibit 442 Document entitled "Show Inventory 104 Command"; Bates stamped CSI-CLI-610102 to 610105 Exhibit 443 E-mail dated 12/6/2002 from Eric 114 Osborne; Bates stamped CSI-CLI-777457
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to 610105 16 rwong@kvn.com 16 Exhibit 443 E-mail dated 12/6/2002 from Eric 114 17 ALSO PRESENT: 18 Exhibit 443 E-mail dated 12/6/2002 from Eric 114 Osborne; Bates stamped CSI-CLI-777457
16 rwong@kvn.com 16 17 ALSO PRESENT: Exhibit 443 E-mail dated 12/6/2002 from Eric 114 17 Osborne; Bates stamped CSI-CLI-777457
17 ALSO PRESENT: Exhibit 443 E-mail dated 12/6/2002 from Eric 114 17 Osborne; Bates stamped CSI-CLI-777457
Usborne; Bates stamped CSI-CLI-777457
18 SEAN GRANT, Videographer to 459
19
Exhibit 444 Interrogatory No 2 First Supplemental 122 20 19 Response - Exhibit B; 102 pages
21 Response - Exhibit 495 E-mail dated 25 June 2002 from Ilse 151
Van Hoeck; Bates stamped
20 7 11 116 7 11 117 1 100 0 11 1
Wei; Bates stamped CSI-CLI-60866
24 23
0.4
25 Page 3 Page 5

Case 5:14-cv-05344-BLF Document 512-8 Filed 09/06/16 Page 97 of 122

1	EXHIBITS (Cont.)	1	plaintiff.
2	PHILLIP REMAKER, 30(b)(6)	2	THE VIDEOGRAPHER: Thank you. Will the
3 4	NUMBER DESCRIPTION PAGE	3	certified court reporter please swear in the
4	Exhibit 447 Plaintiff Cisco Systems, Inc.'s Seventh 164 Supplemental Objections and Responses	4	witness.
5	to Defendant Arista Network, Inc.'s	5	Williess.
	Second Set of Interrogatories	6	DUILIDDEMAVED
6 7	(No. 16); 50 pages Exhibit 448 Plaintiff Cisco System, Inc.'s Fourth 167	1	PHILLIP REMAKER,
	Supplemental Objections and Responses	7	having been first duly sworn, was examined
8	to Defendant Arista Network, Inc's	8	and testified as follows:
9	First Set of Interrogatories (2 and 5); 44 pages	9	
10	Exhibit 449 Cisco's Response to Arista's 182	10	EXAMINATION
1 11	Interrogatory No. 16 Amended Exhibit	11	BY MR. WONG:
11 12	D1 (IOS Release 11.0); 28 pages Exhibit 450 Exhibit E Exemplary Copying of Command 201	12	Q. Good morning, Mr. Remaker.
	Responses; 27 pages	13	A. Good morning.
13	Eskibit del Weiter Commend Line Interferen (CUI) 204	14	Q. Do you understand that you are testifying
14	Exhibit 451 Writing Command Line Interfaces (CLI) 204 and CLI Output; Bates stamped	15	under oath?
	CSI-CLI-02607986 to 8010	16	A. I understand.
15	* * *	17	Q. Okay. And I know we took your personal
16	* * *	18	deposition yesterday. Do you understand that the
17		19	general rules for conducting a deposition are also
18 19		20	applicable today?
20		21	A. Yes.
21		22	Q. Do you understand that you have been
22 23		23	designated by Plaintiff Cisco to provide corporate
24		24	testimony under Rule 30(b)(6) today?
25		25	A. Yes.
	Page 6		Page 8
1	Palo Alto, California, Thursday, March 31, 2016	1	(Exhibit 429 marked for identification.)
2	9:30 a.m.	2	MR. WONG: Let's mark this as the first
3	>10 · WIA	3	deposition exhibit. I believe we are on 429.
4	THE VIDEOGRAPHER: Good morning. We're o		THE REPORTER: Correct.
5	the record. The time is 9:30 a m. and the date is	5	BY MR. WONG:
6	March 31st, 2016. This begins the videotaped	6	Q. The court reporter has marked Exhibit 429.
7	deposition of Cisco Systems, Inc. pursuant to Rule	7	a document that on its face says "Defendant Arista
8	30(b)(6). My name is Sean Grant, here with our	8	Network, Inc.'s Notice of Rule 30(b)(6) Deposition
9	court reporter, Leslie Johnson. We're here from	9	of Plaintiff Cisco Systems, Inc."
10	Veritext Legal Solutions at the request of counsel	10	Mr. Remaker, do you recognize the documen
11	for Defendant. This deposition is being held at	11	marked as Exhibit 429?
12	Wilson Sonsini in Palo Alto, California.	12	MR. NEUKOM: It might help you to turn to
13	The caption of this case is Cisco Systems	13	
14	Inc. versus Arista Networks, Inc., Case No.	14	page 23.
15	5:14-cv-05344-BLF.	15	MR. WONG: Thank you, Counsel.
			MR. NEUKOM: Start with paragraph 78.
16 17	Please note that audio and video recording	16	THE WITNESS: Yes, I recognize this
17	will take place unless all parties have agreed to go	17	document.
18	off the record. Microphones are sensitive and may	18	BY MR. WONG:
19	pick up whispers, private conversations or cellular	19	Q. Do you understand that you have been
20	interference.	20	designated by Cisco to provide corporate testimony
21	At this time, will counsel please identify	21	for topic No. 78 that appears on page 23 of
22	themselves and state whom they represent.	22	Exhibit 429?
23	MR. WONG: Ryan Wong from Keker & Van Nes		A. Yes.
24	for Defendant Arista Networks.	24	Q. Do you understand that you've been
25	MR. NEUKOM: John Neukom for the Page 7	25	designated by Cisco to provide corporate testimony
			Page 9

Case 5:14-cv-05344-BLF Document 512-8 Filed 09/06/16 Page 98 of 122

	The second secon	ſ	
1	answered.	1	group, the Parser Police mailing list, and any other
2	THE WITNESS: Cisco trusts the engineers	2	related mailing lists run by individual
3	that they hired that are experts in the topic.	3	organizations.
4	BY MR. WONG:	4	Q. Anything else?
5	Q. Mr. Remaker, did you review any deposition	5	A. Nothing I can think of off the top of my
6	testimony provided in this case to prepare for this	6	head.
7	corporate deposition?	7	Q. Is customer feedback a potential resource
8	A. Yes.	8	for an employee who is creating a new CLI command
9	Q. Did you review the deposition transcript	9	MR. NEUKOM: Objection. The question
10	of Mr. Patel?	10	phrased in a hypothetical.
11	A. I did not.	11	THE WITNESS: Customer feedback may be
12	Q. In the process of adding a new CLI command	12	used in the creation of a new CLI command.
13	to a Cisco operating system, is there a preferred or	13	BY MR. WONG:
14	best practice development approach that are followed		Q. Are industry standards resources that may
15	by Cisco engineers?	15	be used by Cisco employees to create CLI commands?
16	MR. NEUKOM: Objection. Asked and	16	MR. NEUKOM: Objection. Vague. Calls for
1	-		
17	answered. Also vague and compound.	17 18	a legal solution.
18	THE WITNESS: Is there a best practice		THE WITNESS: Development engineers may
19	for?	19	use standards in the preparation of CLI commands.
20	BY MR. WONG:	20	BY MR. WONG:
21	Q. The development of and creation of a new	21	Q. And that includes IEEE standards, correct.
22	CLI command to be added to the operating system?	22	MR. NEUKOM: Objection. Vague and
23	And let me just give you some context.	23	compound.
24	Mr. Patel testified about a five-stage	24	THE WITNESS: That is my understanding.
25	development process for adding new features to the	25	1///
akakan samban di Manada k	Page 154		Page 156
1	Cisco's CLI and described how proposing the new CLI	1	BY MR. WONG:
2	commands for those features, what stages those were	2	Q. That could also include IETF standards,
3	done in.	3	correct?
4	A. Okay.	4	A. That is my understanding.
5	Q. And he testified that he thought this was	5	Q. And is the existing command set in the
6	called the waterfall approach. I wasn't familiar	6	Cisco CLI another resource that an engineer may
7	with that, but he described it as a five-stage	7	consult when coming up with a new CLI command?
8			
	annioach to develonment.	8	
9	approach to development.	8 9	MR. NEUKOM: Objection, Vague and
9 10	So my question to you is: Is there a	9	MR. NEUKOM: Objection. Vague and compound.
10	So my question to you is: Is there a preferred approach at Cisco to come up with new CLI		MR. NEUKOM: Objection. Vague and compound. THE WITNESS: Are you saying can they look
10 11	So my question to you is: Is there a preferred approach at Cisco to come up with new CLI commands in the process of adding new functionality	9 10 11	MR. NEUKOM: Objection. Vague and compound. THE WITNESS: Are you saying can they look at the existing code to develop new code?
10 11 12	So my question to you is: Is there a preferred approach at Cisco to come up with new CLI commands in the process of adding new functionality to Cisco's devices?	9 10 11 12	MR. NEUKOM: Objection. Vague and compound. THE WITNESS: Are you saying can they look at the existing code to develop new code? BY MR. WONG:
10 11 12 13	So my question to you is: Is there a preferred approach at Cisco to come up with new CLI commands in the process of adding new functionality to Cisco's devices? A. The best practices may vary by individual	9 10 11 12 13	MR. NEUKOM: Objection. Vague and compound. THE WITNESS: Are you saying can they look at the existing code to develop new code? BY MR. WONG: Q. Uh-huh.
10 11 12 13 14	So my question to you is: Is there a preferred approach at Cisco to come up with new CLI commands in the process of adding new functionality to Cisco's devices? A. The best practices may vary by individual development group.	9 10 11 12 13 14	MR. NEUKOM: Objection. Vague and compound. THE WITNESS: Are you saying can they look at the existing code to develop new code? BY MR. WONG: Q. Uh-huh. A. Yes.
10 11 12 13 14 15	So my question to you is: Is there a preferred approach at Cisco to come up with new CLI commands in the process of adding new functionality to Cisco's devices? A. The best practices may vary by individual development group. Q. So you would have to look at each	9 10 11 12 13 14 15	MR. NEUKOM: Objection. Vague and compound. THE WITNESS: Are you saying can they look at the existing code to develop new code? BY MR. WONG: Q. Uh-huh. A. Yes. Q. Are there any resources that a Cisco
10 11 12 13 14 15	So my question to you is: Is there a preferred approach at Cisco to come up with new CLI commands in the process of adding new functionality to Cisco's devices? A. The best practices may vary by individual development group. Q. So you would have to look at each development group to see whether there is a best	9 10 11 12 13 14 15 16	MR. NEUKOM: Objection. Vague and compound. THE WITNESS: Are you saying can they look at the existing code to develop new code? BY MR. WONG: Q. Uh-huh. A. Yes. Q. Are there any resources that a Cisco engineer is not allowed to consult when coming up
10 11 12 13 14 15 16	So my question to you is: Is there a preferred approach at Cisco to come up with new CLI commands in the process of adding new functionality to Cisco's devices? A. The best practices may vary by individual development group. Q. So you would have to look at each development group to see whether there is a best practice to coming up with a new CLI command; is	9 10 11 12 13 14 15 16	MR. NEUKOM: Objection. Vague and compound. THE WITNESS: Are you saying can they look at the existing code to develop new code? BY MR. WONG: Q. Uh-huh. A. Yes. Q. Are there any resources that a Cisco engineer is not allowed to consult when coming up with a new command syntax?
10 11 12 13 14 15 16 17	So my question to you is: Is there a preferred approach at Cisco to come up with new CLI commands in the process of adding new functionality to Cisco's devices? A. The best practices may vary by individual development group. Q. So you would have to look at each development group to see whether there is a best practice to coming up with a new CLI command; is that right?	9 10 11 12 13 14 15 16 17	MR. NEUKOM: Objection. Vague and compound. THE WITNESS: Are you saying can they look at the existing code to develop new code? BY MR. WONG: Q. Uh-huh. A. Yes. Q. Are there any resources that a Cisco engineer is not allowed to consult when coming up with a new command syntax? A. Beyond what they're not allowed to consult
10 11 12 13 14 15 16 17 18	So my question to you is: Is there a preferred approach at Cisco to come up with new CLI commands in the process of adding new functionality to Cisco's devices? A. The best practices may vary by individual development group. Q. So you would have to look at each development group to see whether there is a best practice to coming up with a new CLI command; is that right? A. I would have to look at each individual	9 10 11 12 13 14 15 16 17 18	MR. NEUKOM: Objection. Vague and compound. THE WITNESS: Are you saying can they look at the existing code to develop new code? BY MR. WONG: Q. Uh-huh. A. Yes. Q. Are there any resources that a Cisco engineer is not allowed to consult when coming up with a new command syntax? A. Beyond what they're not allowed to consult with in general, based on the terms of employment,
10 11 12 13 14 15 16 17 18	So my question to you is: Is there a preferred approach at Cisco to come up with new CLI commands in the process of adding new functionality to Cisco's devices? A. The best practices may vary by individual development group. Q. So you would have to look at each development group to see whether there is a best practice to coming up with a new CLI command; is that right? A. I would have to look at each individual development group.	9 10 11 12 13 14 15 16 17 18 19 20	MR. NEUKOM: Objection. Vague and compound. THE WITNESS: Are you saying can they look at the existing code to develop new code? BY MR. WONG: Q. Uh-huh. A. Yes. Q. Are there any resources that a Cisco engineer is not allowed to consult when coming up with a new command syntax? A. Beyond what they're not allowed to consult with in general, based on the terms of employment, I'm not aware of any specific restrictions.
10 11 12 13 14 15 16 17 18 19 20 21	So my question to you is: Is there a preferred approach at Cisco to come up with new CLI commands in the process of adding new functionality to Cisco's devices? A. The best practices may vary by individual development group. Q. So you would have to look at each development group to see whether there is a best practice to coming up with a new CLI command; is that right? A. I would have to look at each individual development group. Q. What resources are available for an	9 10 11 12 13 14 15 16 17 18 19 20 21	MR. NEUKOM: Objection. Vague and compound. THE WITNESS: Are you saying can they look at the existing code to develop new code? BY MR. WONG: Q. Uh-huh. A. Yes. Q. Are there any resources that a Cisco engineer is not allowed to consult when coming up with a new command syntax? A. Beyond what they're not allowed to consult with in general, based on the terms of employment, I'm not aware of any specific restrictions. Q. Are Cisco employees free to rely upon
10 11 12 13 14 15 16 17 18 19 20 21	So my question to you is: Is there a preferred approach at Cisco to come up with new CLI commands in the process of adding new functionality to Cisco's devices? A. The best practices may vary by individual development group. Q. So you would have to look at each development group to see whether there is a best practice to coming up with a new CLI command; is that right? A. I would have to look at each individual development group. Q. What resources are available for an engineer to consult when coming up with a new CLI	9 10 11 12 13 14 15 16 17 18 19 20 21 22	MR. NEUKOM: Objection. Vague and compound. THE WITNESS: Are you saying can they look at the existing code to develop new code? BY MR. WONG: Q. Uh-huh. A. Yes. Q. Are there any resources that a Cisco engineer is not allowed to consult when coming up with a new command syntax? A. Beyond what they're not allowed to consult with in general, based on the terms of employment, I'm not aware of any specific restrictions. Q. Are Cisco employees free to rely upon their own experiences working with non-Cisco CLI's
10 11 12 13 14 15 16 17 18 19 20 21 22 23	So my question to you is: Is there a preferred approach at Cisco to come up with new CLI commands in the process of adding new functionality to Cisco's devices? A. The best practices may vary by individual development group. Q. So you would have to look at each development group to see whether there is a best practice to coming up with a new CLI command; is that right? A. I would have to look at each individual development group. Q. What resources are available for an engineer to consult when coming up with a new CLI command?	9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	MR. NEUKOM: Objection. Vague and compound. THE WITNESS: Are you saying can they look at the existing code to develop new code? BY MR. WONG: Q. Uh-huh. A. Yes. Q. Are there any resources that a Cisco engineer is not allowed to consult when coming up with a new command syntax? A. Beyond what they're not allowed to consult with in general, based on the terms of employment, I'm not aware of any specific restrictions. Q. Are Cisco employees free to rely upon their own experiences working with non-Cisco CLI's when coming up with new CLI commands for Cisco IOS?
10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	So my question to you is: Is there a preferred approach at Cisco to come up with new CLI commands in the process of adding new functionality to Cisco's devices? A. The best practices may vary by individual development group. Q. So you would have to look at each development group to see whether there is a best practice to coming up with a new CLI command; is that right? A. I would have to look at each individual development group. Q. What resources are available for an engineer to consult when coming up with a new CLI command? A. The resources include specific documents	9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	MR. NEUKOM: Objection. Vague and compound. THE WITNESS: Are you saying can they look at the existing code to develop new code? BY MR. WONG: Q. Uh-huh. A. Yes. Q. Are there any resources that a Cisco engineer is not allowed to consult when coming up with a new command syntax? A. Beyond what they're not allowed to consult with in general, based on the terms of employment, I'm not aware of any specific restrictions. Q. Are Cisco employees free to rely upon their own experiences working with non-Cisco CLI's when coming up with new CLI commands for Cisco IOS? MR. NEUKOM: Objection. Vague.
10 11 12 13 14 15 16 17 18 19 20 21 22 23	So my question to you is: Is there a preferred approach at Cisco to come up with new CLI commands in the process of adding new functionality to Cisco's devices? A. The best practices may vary by individual development group. Q. So you would have to look at each development group to see whether there is a best practice to coming up with a new CLI command; is that right? A. I would have to look at each individual development group. Q. What resources are available for an engineer to consult when coming up with a new CLI command?	9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	MR. NEUKOM: Objection. Vague and compound. THE WITNESS: Are you saying can they look at the existing code to develop new code? BY MR. WONG: Q. Uh-huh. A. Yes. Q. Are there any resources that a Cisco engineer is not allowed to consult when coming up with a new command syntax? A. Beyond what they're not allowed to consult with in general, based on the terms of employment, I'm not aware of any specific restrictions. Q. Are Cisco employees free to rely upon their own experiences working with non-Cisco CLI's when coming up with new CLI commands for Cisco IOS?

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		1	
1	estimate for us the number of documents the	1	REPORTER'S CERTIFICATION
2	number of historical Cisco documents you reviewed t		
3	prepare yourself to testify today as a corporate	3	I, Leslie Johnson, a Certified Shorthand
4	representative?	4	Reporter of the State of California, do hereby certify:
5	A. Easily 60 to 100 documents.	5	That the foregoing proceedings were taken
6	Q. And can you describe by category what	6	before me at the time and place herein set forth; that
7	sorts of documents you reviewed to prepare yourself	7	any witnesses in the foregoing proceedings, prior to
8	to come testify today about the historical	8 9	testifying, were administered an oath; that a record of the proceedings was made by me using machine shorthan
9	origination of Cisco command line expressions?	10	which was thereafter transcribed under my direction;
10	A. Individual command specifications written	11	that the foregoing transcript is a true record of the
11	by engineers, source code, some e-mails, some	12	testimony given.
12	internal web pages, and the deposition of Kirk		Further, that if the foregoing pertains to
13	Lougheed.	13	the original transcript of a deposition in a Federal
14	Q. Do you believe there is anybody within	14	Case, before completion of the proceedings, review
15	Cisco who knows more about the historical creation	15	of the transcript [] was [] was not requested.
16	of the 500-plus command line expressions identified	16	I further certify I am neither financially interested in
17	in Exhibit 431, other than you?	17	the action nor a relative or employee of any attorney or
18	A. No.	18	any party to this action.
19	MR. NEUKOM: Thanks very much.	19	IN WITNESS WHEREOF, I have this date
20	MR. WONG: Thank you.		subscribed my name.
21	THE VIDEOGRAPHER: This concludes today's	20	Dated: April 15, 2016
22	videotaped deposition of Cisco Systems, Inc.	21	
23	pursuant to Rule 30(b)(6).	22	c0/-i1/0/>
24	We're off the record at 4:14 p m.	23 24	<%signature%> LESLIE JOHNSON
25	(TIME NOTED: 4:14 p m.)	24 25	CSR No. 11451, RPR, CCRR
2.5	Page 214	23	Page 216
	Tago DII		
1 2	DECLARATION UNDER PENALTY OF PERJURY		
3	I DITH I ID DEMANTED 41 to		
	I, PHILLIP REMAKER, the witness herein,		
4	declare under penalty of perjury that I have read the		
5	foregoing in its entirety; and that the testimony		
6	contained therein, as corrected by me, is a true and		
7	accurate transcription of my testimony elicited at said		
8	time and place.		
9	E 111' 1 8 2016 1		
10	Executed this day of 2016, at		
11	(0:4-1)		
12	(City) (State)		
13			
14			
15			
16			
17			
18	PHILLIP REMAKER		
19			
20			
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22			
23			
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	Page 215		
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Case 5:14-cv-05344-BLF Document 512-8 Filed 09/06/16 Page 100 of 122 HIGHLY CONFIDENTIAL- ATTORNEYS' EYES ONLY

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1
                     UNITED STATES DISTRICT COURT
  2
                   NORTHERN DISTRICT OF CALIFORNIA
  3
                           SAN JOSE DIVISION
 4
 5
 6
      CISCO SYSTEMS, INC.,
 7
                 Plaintiff,
 8
           vs.
                                     ) Case No.:
                                     ) 5:14-cv-05344-BLF(PSG)
 9
      ARISTA NETWORKS, INC.,
                 Defendant.
10
11
12
13
             ATTORNEYS' EYES ONLY - HIGHLY CONFIDENTIAL
14
                 VIDEOTAPED DEPOSITION OF ABHAY ROY
15
                        Palo Alto, California
16
                      Friday, December 18, 2015
                               Volume 1
17
18
19
20
21
     Reported by:
22
     RACHEL FERRIER
     CSR No. 6948
23
24
     Job No. 2200521
25
     PAGES 1 - 232
                                                        Page 1
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UNITED STATES DISTRICT COURT
                                                              1 APPEARANCES (continued):
  2
          NORTHERN DISTRICT OF CALIFORNIA
                                                              2
  3
              SAN JOSE DIVISION
                                                              3 For Defendant ARISTA NETWORKS, INC.:
  4
                                                              4
                                                                    KEKER & VAN NEST, LLP
  5
                                                              5
                                                                    BY: DAVID J. SILBERT
  6 CISCO SYSTEMS, INC.,
                                                              6
                                                                    ELIZABETH K. McCLOSKEY
                                                              7
                                                                    Attorneys at Law
  7
         Plaintiff,
                                                              8
                                                                    633 Battery Street
                                                              9
  8
                    )Case No.:
                                                                    San Francisco, CA 94111
                   )5:14-cv-05344-BLF(PSG)
                                                             10
                                                                    415.676.2269
  9 ARISTA NETWORKS, INC.,
                                                             11
                                                                    dsilbert@kvn.com
                                                            12
                                                                    emccloskey@kvn.com
 10
         Defendant.
                                                            13
 11
                                                            14 Videographer:
12
                                                            15
                                                                    CASSIA LEET
 13
       VIDEOTAPED DEPOSITION OF ABHAY ROY, VOLUME 1
                                                            16
 14 taken on behalf of the Defendant, at Wilson Sonsini
 15 Goodrich & Rosati, 601 California Avenue, Palo Alto,
                                                            17
 16 California, beginning at 9:30 a.m. and ending at
                                                            18
17 4:47 p.m. on Friday, December 18, 2015, before
                                                            19
18 RACHEL FERRIER, Certified Shorthand Reporter No. 6948.
                                                            20
                                                            21
20
21
                                                            22
22
                                                            23
23
                                                            24
24
                                                            25
25
                                                     Page 2
                                                                                                                Page 4
                                                                          INDEX
 1 APPEARANCES:
                                                            2 WITNESS
                                                                                     EXAMINATION
 2
                                                            3 ABHAY ROY
                                                              VOLUME 1
 3 For Plaintiff CISCO SYSTEMS, INC., and the Witness:
      QUINN EMANUEL URQUHART & SULLIVAN LLP
                                                                        BY MR SILBERT 10, 87, 219
 5
      BY: JOHN M. NEUKOM
                                                            8
 6
      Attorney at Law
                                                                         EXHIBITS
                                                            10 NUMBER
                                                                             DESCRIPTION
                                                                                                PAGE
 7
      50 California Street, 22nd Floor
                                                            11 Exhibit 51 LinkedIn Profile for
 8
      San Francisco, CA 94111
                                                                    Abhay Roy
                                                            12
 9
      415.875.6320
                                                              Exhibit 52 Cisco IOS Master Command
10
      johnneukom@quinnemanuel.com
                                                            13
                                                                    List, All Releases
11 and
                                                            14 Exhibit 53 CLI Design and Review
12
      QUINN EMANUEL URQUHART & SULLIVAN LLP
                                                                    (Bates CSI-ANI-00073381 -
13
      BY: SIDNEY ARCHIBALD
                                                                    00073381 000014)
                                                            16
14
      Attorney at Law
                                                              Exhibit 54 Cisco's Third Supplemental
15
      555 Twin Dolphin Drive, 5th Floor
                                                                    Response to Interrogatory
                                                                    No 16 and Response to
16
      Redwood Shores, CA 94065
                                                           18
                                                                    Interrogatory No 19
17
      650.801.5000
                                                                    Amended Exhibit F
                                                                                           57
                                                           19
18
      sydneyarchibald@quinnemanuel.com
                                                              Exhibit 55 Bidirectional Forwarding
19
                                                           20
                                                                    Detection (BFD) for IPv4
                                                                    and IPv6 (Single Hop)
20
                                                           21
                                                                    (Bates ARISTANDCA00030805 -
21
                                                                    00030811)
22
                                                              Exhibit 56 The OSPF Specification
23
                                                           23
                                                                    (Bates ARISTANDCA00022597 -
                                                                    00022703)
24
                                                           24
25
                                                           25
                                                    Page 3
                                                                                                               Page 5
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TIOTL I CONFIDENTIAL-	ATTUMICIO ETES UNLI
1 EXHIBITS	1 INDEX (Continued):
2 NUMBER DESCRIPTION PAGE 3 Exhibit 57 Bidirectional Forwarding	2 PREVIOUSLY MARKED EXHIBITS
Detection (BFD) 4 (Bates ARISTANDCA00030756 -	3 EXHIBIT PAGE
00030804) 99	4 29 75
5 Exhibit 58 Internet Protocol,	
6 Version 6 (IPv6)	5 (Retained by Counsel)
Specification 7 (Bates ARISTANDCA00025710 -	6
00025746) 105	7 INSTRUCTION NOT TO ANSWER
Exhibit 59 OSPF Commands: ip ospf	8 Page Line
9 fast-reroute per-pretix through R 130	9 57 23
10	10
Exhibit 60 CSCdi42640 11 (Bates CSI-CLI-01542004) 137	11
12 Exhibit 61 CSCdj76740 140 13 Exhibit 62 CSCdj76740 140	12
14 Exhibit 63 Screen shot of a webpage	13
titled "Do you have 15 knowledge of IPR in	14
draft-ietf-isis-mi" 169	15
Exhibit 64 Screen shot of a webpage	16
17 titled "Re:[68ATTENDEES] RFC Author License	17
18 Execution Opportunity" 171	18
19 Exhibit 65 E-mail chain dated 11/23/15 to Leo Boulton,	19
20 et al , from Brian Jackson	20
21 (Bates CSI-CLI-01477442 - 01477448) 179	21
22	22
Exhibit 66 E-rnail chain dated 9/8/15 23 from Umesh Dudani to	23
Abhay Roy	1
24 (Bates CSI-CLI-01438733 - 01438743) 193	24
Page 6	Page 8
	1 age 0
1 EXHIBITS 2 NUMBER DESCRIPTION PAGE	Palo Alto, California; Friday, December 18, 2015
3 Exhibit 67 E-mail chain dated 7/3/13	2 9:30 a m
from Vittal Krishnamurthy 4 to Pranav Mehta, et al	3 09:30AM
(Bates CSI-CLI-01483915 -	4 THE VIDEOGRAPHER: Good morning We are on the 09:30AM
5 01483921) 201	5 record at 9:30 a m on December 18th, 2015 09:30AM
6 Exhibit 68 E-mail chain dated 9/16/15 from Shane Corban to Yong	6 This is the video-recorded deposition of 09:30AM
7 Hu, et al	7 Abhay Roy 09:30AM
(Bates CSI-CLI-01440122 - 8 01440128) 204	
9 Exhibit 69 OSPFv3 support in IOS	8 My name is Cassia Leet, here with our Court 09:30AM
	,
Software Unit Functional	9 Reporter, Rachel Ferrier We are here from Veritext 09:30AM
	9 Reporter, Rachel Ferrier We are here from Veritext 09:30AM 10 Legal Solutions at the request of counsel for the 09:30AM
Software Unit Functional	9 Reporter, Rachel Ferrier We are here from Veritext 09:30AM 10 Legal Solutions at the request of counsel for the 09:30AM 11 defendant 09:30AM
Software Unit Functional Specification (Bates CSI-CLI-00609752 -	9 Reporter, Rachel Ferrier We are here from Veritext 09:30AM 10 Legal Solutions at the request of counsel for the 09:30AM 11 defendant 09:30AM 12 This deposition is being held at 601 California 09:30AM
Software Unit Functional	9 Reporter, Rachel Ferrier We are here from Veritext 09:30AM 10 Legal Solutions at the request of counsel for the 09:30AM 11 defendant 09:30AM 12 This deposition is being held at 601 California 09:30AM 13 Avenue, Palo Alto, California 94304 09:30AM
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1 Q And do you know the general dates? 11:11AM	1 be used by any pair of systems communicating via IPv4 11:14AN
2 A Yeah, I mean, I'll be completely widely 11:11AM	2 and/or IPv6 across a single IP hop that is associated 11:14AM
3 speculating, so I would rather not 11:12AM	3 with an incoming interface." 11:14AM
4 Q Okay Do you have any knowledge of when Mr Ward 11:12AM	4 Do you see that language? 11:14AM
5 worked at Cisco? 11:12AM	5 A Yes, I see that. 11:14AM
6 A Same thing 11:12AM	6 Q Under the BFD standard, is BFD enabled for a 11:14AM
7 Q Okay At the time Exhibit 55 was published, 11:12AM	7 specific interface? 11:15AM
8 they both Mr Katz and Mr Ward worked at Juniper 11:12AM	8 MR. NEUKOM: Objection; vague, calls for opinion 11:15AN
9 Networks; is that right? 11:12AM	9 testimony. 11:15AM
10 A Yes That's what this that's what this 11:12AM	10 THE WITNESS: So I don't remember the complete 11:15AN
11 document is telling us 11:12AM	11 details of the document. My closest recollection is the 11:15AM
12 Q Okay 11:12AM	12 specified as the line you just quoted, it is a 11:15AM
13 A that is rendered, yes 11:12AM	13 technology where two devices on a single interface can 11:15AM
14 Q And Juniper Networks is a competitor of Cisco; 11:12AM	14 detect each other in a faster way. 11:15AM
15 correct? 11:12AM	15 BY MR. SILBERT: 11:15AM
16 A Yes Juniper makes routers and switches 11:12AM	16 Q Okay. Sorry to jump around on you, but I'm going 11:15AM
17 Q Okay If you look at the title of the document, 11:12AM	17 to do this I'm going to warn you, I'm going to do 11:15AM
18 it says "Bidirectional Forwarding Detection (BFD) " 11:12AM	18 this some today. 11:15AM
19 Do you see that? 11:13AM	19 Could you look back at Exhibit 54 or, 11:15AM
20 A Yes, I see that 11:13AM	20 actually, strike that. That's okay. 11:16AM
21 Q Is the acronym BFD one that's commonly used in 11:13AM	21 What what is the function of the 11:16AM
22 the industry? 11:13AM	22 "bfd all-interfaces" command in Cisco IOS? 11:16AM
23 MR NEUKOM: Objection; foundation, calls for 11:13AM	23 A So BFD I mean, this is a slightly longer 11:16AM
24 opinion testimony 11:13AM	24 answer, so BFD we just looked at the spec. This is 11:16AM
THE WITNESS: So if you stay in the scope of this 11:13AM	25 the technology where, on a per-interface basis between 11:16AM
Page 66	Page 68
1 document, the primary purpose, as I was answering 11:13AM	I two devices, you can set up this functionality to detect 11:16AM
2 earlier, is for the reader to understand this document 11:13AM	2 whoever goes down faster, right? 11:16AM
3 and refer to to BFD as as a acronym versus saying 11:13AM	3 When we ship this technology to our customers, 11:16AM
4 or fully spelling out Bidirectional Forwarding 11:13AM	4 what we realized is they have a lot of such interfaces, 11:16AM
5 Detection. That's the purpose in this document. 11:13AM	5 and if you had, let's say, a hundred interfaces, it was 11:16AM
6 Now, as far as the industry is concerned, I have 11:13AM	6 quite cumbersome to go and configure, on each interface, 11:16AM
7 no idea what people want to call it, but the correct 11:13AM	7 that I really want to protect myself; I really want BFD 11:16AM
8 thing to call it would be the full name, which is the 11:13AM	8 enabled I1:17AM
9 technology, which is Bidirectional Forwarding Detection. 11:13AM	
10 People could abbreviate and say all sorts of things, 11:13AM	10 a shorthand which you can configure at a higher 11:17AM
11 detection using bidirectional checks or doing all sorts 11:13AM	10 a shorthand which you can configure at a higher 11:17AM 11 construct? 11:17AM
detection using bidirectional checks or doing all sorts 11:13AM of things, so variety of options possible. 11:14AM	10 a shorthand which you can configure at a higher 11:17AM 11 construct? 11:17AM 12 So the example I was giving earlier is, in 11:17AM
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detection using bidirectional checks or doing all sorts 11:13AM of things, so variety of options possible. 11:14AM MR. SILBERT: Okay. But fair enough. 11:14AM Bidirectional Forwarding Detection, appears in 11:14AM Exhibit 55? 11:14AM A Yes, that is correct. I see that. 11:14AM Q Yeah. Okay. 11:14AM Would you please turn to the second page of the 11:14AM document under Section 2, and I'm looking at the 11:14AM section Section 2 with the heading "Applications and 11:14AM Limitations." 11:14AM	10 a shorthand which you can configure at a higher 11:17AM 11 construct? 11:17AM 12 So the example I was giving earlier is, in 11:17AM 13 OSPF OSPF Version 3, in the router context not in 11:17AM 14 the interface context, in the router context you can 11:17AM 15 go and say, BFD, please configure for all interfaces 11:17AM 16 And that simplifies the operational aspect, and 11:17AM 17 customers can now just do this versus having to go to 11:17AM 18 each interface and enabling one at a time, so that's the 11:17AM 19 primary intent based on the feedback we got 11:17AM 20 Q Okay And so just to make sure that I II:17AM 21 understand, the "bfd all-interfaces" command enables BFD 11:17AM 22 for all interfaces; is that correct? 11:17AM

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1	the context of a certain routing protocol 11:17AM	1	where the "probably" comes from 11:20AM
2	MR. SILBERT: Okay. 11:17AM	2	Q Okay But you don't have any actual image in 11:20AM
3	THE WITNESS: it enables BFD for all 11:18AM	3	B your head of those discussions; is that right? 11:20AM
4	interfaces where that routing protocol is enabled, but, 11:18AM	4	·
1	yeah. 11:18AM	5	Q Okay Why don't you go back to let's let's 11:20AM
1	6 BY MR. SILBERT: 11:18AM		look again at Exhibit 54, this table, and would you 11:20 AM
	Q Okay. We discussed earlier the fact that you 11:18AM	1	please turn to page 12 11:20AM
	don't know who came up with the expression 11:18AM	8	
	"bfd all-interfaces"; is that correct? 11:18AM		page, the Command Expression in the left-hand column 11:21AM
10			"ip ospf authentication"? 11:21AM
1		11	
12	•	12	
13		1	heading "Author/Originator Information"? It says 11:21AM
	multiple protocols, and it's collaborative. I can't 11:18AM		"Cisco" and then your name? 11:21AM
1	pinpoint to specific engineer who probably suggested 11:18AM	15	·
	these exact words. 11:18AM	16	Q Did you come up with the expression "ip ospf 11:21AM
17	BY MR. SILBERT: 11:18AM	17	authentication"? 11:21AM
18	Q Okay. And I take it that you also don't know 11:18AM	18	A I'll probably give you a similar answer; that I 11:21AM
19	what sources that engineer or those engineers referred 11:18AM	19	was part of the team who were working on it Was this 11:21AM
20	to in coming up with that expression; is that correct? 11:19AM	20	purely me or was it a combined brainstorming with the 11:21AM
21	MR. NEUKOM: Objection; misstates prior 11:19AM	21	team, I don't have specific recollection 11:21AM
22	testimony. 11:19AM	22	Q Okay And similar to the "bfd all-interfaces" 11:22AM
23	THE WITNESS: Yeah, so, I mean, I can't recollect 11:19AM	23	command that we discussed, do you have any knowledge of 11:22AM
24	what what sources they used to come up with this 11:19AM	24	what person or persons actually came up with the 11:22AM
25	exactly. 11:19AM	25	expression "ip ospf authentication"? 11:22AM
	Page 70		Page 72
		L	
1	BY MR SILBERT: 11:19AM	1	MR. NEUKOM: Objection; asked and answered. 11:22AM
	BY MR SILBERT: 11:19AM	1 2	* '
2	BY MR SILBERT: 11:19AM Q What was your personal involvement, if any, in 11:19AM	2	THE WITNESS: Yeah, no specific names I can cite, 11:22AM
2	BY MR SILBERT: 11:19AM Q What was your personal involvement, if any, in 11:19AM naming the "bfd all-interfaces" command? 11:19AM	2 3	THE WITNESS: Yeah, no specific names I can cite, 11:22AM but, again, this is similar to what I said. The team 11:22AM
2 3 4	BY MR SILBERT: 11:19AM Q What was your personal involvement, if any, in 11:19AM naming the "bfd all-interfaces" command? 11:19AM A So I remember the implementation part of the 11:19AM	2 3 4	THE WITNESS: Yeah, no specific names I can cite, 11:22AM but, again, this is similar to what I said. The team 11:22AM talks about it and comes up with the name. Who who 11:22AM
2 3 4 5	BY MR SILBERT: 11:19AM Q What was your personal involvement, if any, in 11:19AM naming the "bfd all-interfaces" command? 11:19AM A So I remember the implementation part of the 11:19AM command where I was a developer writing the code and 11:19AM	2 3 4 5	THE WITNESS: Yeah, no specific names I can cite, 11:22AM but, again, this is similar to what I said. The team 11:22AM talks about it and comes up with the name. Who who 11:22AM seeded the word or part of the word and how we arrived 11:22AM
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1 Q Okay. What's the significance of the term "ip" 11:24AM	1 this document, Exhibit 29? 11:27AM
2 at the start of this command? 11:24AM	2 MR. NEUKOM: Objection; foundation. 11:27AM
3 A IP 1 think we we kept "ip" as the top-level 11:24AM	3 THE WITNESS: So I'm just reading page 1 or 11:27AM
4 keyword for things which were related to IP before, so 11:24AM	4 what you have in your bottom as 1557. Just below the 11:27AM
5 "ip" really implies IP Version 4. 11:24AM	5 RFC 791, it says, Replaces RFC 760, which generally 11:27AM
6 Q Okay. And just to back up for a second, IP 11:24AM	6 implies there was prior work, which which his 11:27AM
7 stands for Internet protocol; correct? 11:24AM	7 supersedes. 11:27AM
8 A That is correct. 11:24AM	8 BY MR. SILBERT: 11:28AM
9 Q And IPv4 stands for or refers to Version 4 of 11:24AM	9 Q Okay. And forgive me if I've asked you this 11:28AM
10 the Internet protocol; is that correct? 11:24AM	10 (Discussion off the stenographic record.) 11:28AM
11 A That is correct. That is correct. 11:24AM	11 BY MR. SILBERT: 11:28AM
12 Q And the Internet protocol is specified in a 11:24AM	12 Q I apologize if I've asked you this already, but 11:28AM
13 standard published by the IETF; correct? 11:24AM	13 have have you heard the Internet protocol abbreviated 11:28AM
14 A That it's correct. 11:24AM	14 IP outside the context of Cisco? 11:29AM
15 Q And IPv4 is specified in a standard published by 11:24AM	15 A As in what are the other possible abbreviations? 11:29AM
16 the IP IETF; correct? 11:25AM	16 For example, intellectual property we use "IP" term all 11:29AM
17 A Yes, that's correct. 11:25AM	17 the time. 11:29AM
18 Q Okay. The acronym IP was used by the industry to 11:25AN	1
19 refer to Internet protocol before Cisco used it in CLI 11:25AM	19 My question is: Have you heard the abbreviation 11:29AM
20 commands; correct? 11:25AM	20 IP used to refer to the Internet protocol outside the 11:29AM
21 MR, NEUKOM: Objection; foundation. 11:25AM	21 context of Cisco? 11:29AM
22 THE WITNESS: So the term "IP," just like we 11:25AM	22 MR, NEUKOM: Objection; vague. 11:29AM
23 discussed for BFD right? when you write Internet 11:25AM	23 THE WITNESS: So in in IETF as part of my 11:29AM
24 standard, you try to abbreviate technologies, and, 11:25AM	24 role in IETF, people do loosely refer Internet Protocol 11:29AM
25 again, we can look at that document and confirm that's 11:25AM	25 Version 6 as "IP," as as one one of the variants. 11:29AM
Page 74	Page 76
1 true or not I'm guessing it says Internet protocol and 11:25AM	1 There are, again, multiple ways to say that 11:29AM
2 that abbreviates it as "IP," and the document refers to 11:25AM	2 BY MR SILBERT: 11:29AM
3 that so that you don't have to keep saying "Internet 11:25AM	3 Q Have you heard the expression "TCP/IP"? 11:29AM
4 protocol" or "Internet Protocol Version 4" 11:25AM	4 A Yes, I have 11:29AM
5 MR NEUKOM: By the way, David, while you are 11:26AM	5 Q Do you know what the IP stands for in that 11:29AM
6 getting a new document, just as a housekeeping matter, 11:26AM	6 expression? 11:29AM
7 30 minutes or so ago I objected to a question you asked 11:26AM	7 A That is the Internet protocol 11:30AM
8 the witness on the basis of attorney-client privilege, 11:26AM	8 Q Okay And that's the same Internet protocol that 11:30AM
9 and I meant to have objected on the basis of attorney 11:26AM	9 we have been discussing here this morning; correct? 11:30 AM
10 work product 11:26AM	10 A Correct 11:30AM
11 MR SILBERT: Okay 11:26AM	11 Except in when you say "TCP/IP," it's probably 11:30AM
12 MR NEUKOM: So 11:26AM	12 a little broader because it does not imply which IP 11:30AM
13 BY MR SILBERT: 11:26AM	13 version you might be using For example, you may be 11:30AM
14 Q This is let me show you a document that's 11:26AM	14 using IP with IP Version 6, or you may be using 11:30AM
15 already been marked as Exhibit 29 in this case 11:26AM	15 IP Version 4 It's a slightly broader term 11:30AM
16 Do you recognize this document? 11:26AM	16 Q Okay I think you mentioned this previously, but 11:30AM
17 A Yes, I do 11:27AM	17 before somebody came up with the expression "ip ospf 11:30AM
18 Q What is it? 11:27AM	18 authentication," Cisco used "IP" as a top-level keyword 11:30AM
19 A This is an RFC which details the Internet 11:27AM	19 in other commands; correct? 11:30 AM
20 protocol 11:27AM	20 A That is correct 11:30AM
21 Q And the publication date shown here is 11:27AM	21 Q And so when someone came up with the expression 11:31AM
22 September 1981; correct? 11:27AM	22 "ip ospf authentication," they followed that same 11:31AM
23 A Yes, that is correct 11:27AM	23 syntax; correct? 11:31AM
24 Q And was this, to your knowledge, the first 11:27AM	24 MR NEUKOM: Objection; yague 11:31AM
25 version of the Internet protocol that's described in 11:27AM	25 THE WITNESS: Authentication keyword, when it was 11:31AM
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1 introduced again, I'm trying to recollect from my 11:31AM	I A Yes II:34AM
2 20-year-old memory IP OSPF existed in the sense that 11:31AM	2 MR NEUKOM: Objection; misstates prior 11:34AM
3 there were commands with IP OSPF some other options It 11:31AM	3 testimony 11:34AM
4 made sense to attach authentication to that chain 11:31 AM	4 THE WITNESS: Yes I don't have, again, specific 11:34AM
5 already rather than sort of create something brand new 11:31AM	5 recollection of what sort of documentation or documents 11:34AM
6 BY MR SILBERT: 11:31AM	6 we wrote at that time 11:34AM
7 Q Okay And, in fact, if you look below looking 11:31 AM	7 BY MR SILBERT: 11:34AM
8 still at Exhibit 54, if you look immediately below "ip 11:31AM	8 Q Okay We have talked a little bit about OSPF 11:34AM
9 ospf authentication," do you see the entry for "ip ospf 11:3IAM	9 There's an OSPF standard that's published by 11:34AM
10 authentication-key"? 11:32AM	10 IETF; correct? 11:34AM
11 A Yes, I see that 11:32 AM	II MR NEUKOM: Objection; vague 11:34AM
12 Q And the if you look there, the date of the 11:32AM	THE WITNESS: So OSPF is basically Open Shortest 11:34AM
13 earliest-known document that's listed for that 11:32 AM	13 Path First It's one of the routing protocols OSPF 11:34AM
14 expression is 1993, which is five years or so earlier 11:32AM	14 has had multiple IETF standards published over time, and 11:34AM
15 than the date listed for "ip ospf authentication"; is 11:32AM	15 as we just saw, in the case of IP, sometimes the newer 11:35AM
16 that correct?	16 one deprecate the older one and so on, so there are 11:35AM
17 A That's what this document says, yes 11:32AM	17 multiple standards out there related to OSPF 11:35AM
18 Q Do you know what the person or persons who came 11:32AM	18 MR SILBERT: Okay 11:35 AM
19 up with the expression "ip ospf authentication" referred 11:32AM	· ·
	,
21 A Are you asking for the previous command, which is 11:32 AM	21 BY MR SILBERT: 11:35AM
22 the "ip ospf authentication" 11:32 AM	22 Q Mr Roy, would you please look at Exhibit 56 and 11:36 AM
23 Q Yes 11:32AM	23 tell me if you recognize it 11:36AM
24 A or the "key" command 11:32AM	24 A Yes, I do 11:36AM
25 Q No 11:32AM Page 78	25 Q What is it? 11:36AM Page 80
1.00	:
1 A the previous okay 11:32 AM	1 A This is another of OSPF standards RFC, which 11:36AM
2 Q Yeah 11:32AM	2 specifies OSPF protocol, protocol specification. 11:36AM
3 A "Ip ospf authentication" referred to enabling the 11:32AM	3 Q And this document states that it was published in 11:36AM
4 authentification features as we said, it could be 11:33AM	4 October 1989; correct? 11:36AM
5 clear text or it could be message digest on that 11:33 AM	5 A That is correct. 11:36AM
6 interface 11:33AM	6 Q And the author listed here is someone named 11:36AM
7 Q Yeah, I apologize because my question 11:33AM	7 J. Moy, M-o-y; is that correct? 11:36AM
8 A Okay 11:33AM	8 A Yes. John Moy was the author. 11:36AM
9 Q wasn't clear 11:33AM	9 Q And the company where he's listed as working is 11:36AM
10 What I actually was trying to ask you was: Do 11:33AM	10 Proteon, Inc.; is that correct? 11:37AM
11 you know what documents or source materials the people 11:33AM	11 A Correct, so at the time of publication of this 11:37AM
12 who came up with the expression "ip ospf authentication" 11:33AM	12 document, he was employed by Proteon, Inc. 11:37AM
13 referred to when naming that command? 11:33 AM	13 Q Do you know Mr. Moy? 11:37AM
14 A So I can't tell you anything very specific, but 11:33AM	14 A Yes, 1 do. 11:37AM
15 what typically happens, I can say, is when you write a 11:33AM	15 Q Did he ever work for Cisco? 11:37AM
16 new command, of course, you will see source code I1:33AM	16 A Not that I know of, 11:37AM
17 chauges, which looks like it refers to You may also 11:33AM	17 Q This document, in its title, uses the acronym 11:37AM
18 produce customer-facing documents For example, we saw 11:33AM	18 OSPF; correct? 11:37AM
19 command reference where also this will get documented as 11:33AM	19 A Yes, it does. 11:37AM
20 what it does and what the syntax is and so on 11:33AM	20 Q Who who came up with that acronym, to your 11:37AM
21 Q Okay And just to be clear, you are saying 11:33AM	, ,,,,,
, ,	21 knowledge? 11:37AM
22 that's what typically happens because you don't know 11:34 AM	21 knowledge? 11:37AM 22 A So I think I'll give you the same answer I gave 11:37AM
	22 A So I think I'll give you the same answer I gave 11:37AM
23 what the person or persons who named the command 11:34AM	22 A So I think I'll give you the same answer I gave 11:37AM 23 for BFD. If you move to the page I, which is 2601 in 11:37AM
23 what the person or persons who named the command 11:34AM 24 "ip ospf authentication" actually referred to when they 11:34AM	22 A So I think I'll give you the same answer I gave 11:37AM 23 for BFD. If you move to the page 1, which is 2601 in 11:37AM 24 the bottom-right label, and if you see Section 1, talks 11:37AM
23 what the person or persons who named the command 11:34AM 24 "ip ospf authentication" actually referred to when they 11:34AM	22 A So I think I'll give you the same answer I gave 11:37AM 23 for BFD. If you move to the page I, which is 2601 in 11:37AM

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1 and that's very typical in IETF standards, that the long 11:38AM	1 A Yeah, I see that. II:41AM
2 things we create acronym at the first reference and 11:38AM	2 Q What is an area data structure in OSPF? 11:41AM
3 continue to use it in this document 11:38AM	3 MR. NEUKOM: Objection; calls for opinion 11:41AM
4 Q So my question is just this: So far as you know, 11:38AM	4 testimony. 11:41AM
5 someone outside of Cisco came up with the acronym OSPF; 11:38AM	5 THE WITNESS: So "data structure" is is a 11:41AM
6 correct? 11:38AM	6 computer science terminology which is how you store 11:41AM
7 A So IETF IETF products is a complicated 11:38AM	7 data, potentially, in a software implementation. 11:41AM
8 process, and let me just give you a quick glimpse of it 11:38AM	8 "Area" is a concept introduced in this RFC 11:41AM
9 What you are seeing is the finished product, 11:38AM	9 which which refers to a collection of devices which 11:42AM
10 which John Moy was the lead author and he took it to the 11:38AM	10 have which are in the same area or who make a 11:42AM
11 RFC 11:38AM	11 collective decision together by by knowing each 11:42AM
What happened before that and how many versions 11:38AM	12 other's state up front. 11:42AM
13 were there and who are the people who sort of worked and 11:38AM	13 So Internet data structure, I think, is going 11:42AM
14 collaborated to get to tlus stage, you can find that 11:38AM	14 into, if you had such a collection of objects, these are 11:42AM
15 information, that how many earlier revisions of the 11:38AM	15 the objects you probably want to keep in that collection 11:42AM
16 drafts are there, who are the collaborator, where they 11:38AM	16 of objects. 11:42AM
17 worked for whichever companies they worked for, 11:39AM	17 BY MR, SILBERT: 11:42AM
18 right? and how did they come to this 11:39AM	18 Q Okay. Okay. Would you look at two pages more 11:42AM
19 So it's hard to say, just looking at this, who 11:39AM	19 at on the page that ends with the Bates No. 624. 11:42AM
20 came with this and who coined the tenn or who coined the 11:39AM	20 A Yes, 11:42AM
21 acronym OSPF 11:39AM	21 Q And do you see the bolded term "authentication 11:42AM
	22 type"? It's in the top third 11:42AM
22 Q Okay But nevertheless, that acronym was in 11:39AM	
23 common usage before it was used by Cisco in a CLI 11:39AM	-
24 command; correct? 11:39AM	1 0
25 MR NEUKOM: Objection; calls for opinion 11:39AM Page 82	25 A Yeah, I see that. 11:42AM Page 84
1 testimony. 11:39AM	I Q Under the OSPF standard, does an operator specify 11:42 AM
2 THE WITNESS: So I don't know when Cisco 11:39AM	2 the authentification type to be used for an area? 11:43AM
3 implemented OSPF first, so it's hard to say what 11:39AM	3 MR NEUKOM: Objection; vague, calls for opinion 11:43AM
4 happened first. 11:39AM	4 testimony 11:43AM
5 Again, a corollary comment, a lot of times Cisco 11:39AM	5 THE WITNESS: So as per this document, what was 11:43AM
6 is is the driver of technologies, and we implement 11:39AM	6 described here is in a area you could specify if 11:43AM
7 things, and then we publish standards off it, so there 11:39AM	7 authentication is in use, and I think it also refers to 11:43AM
8 could be a coincidence where it has been used in Cisco 11:39AM	8 this other section where you can find details of what 11:43AM
9 before or or in a standard document before again, 11:39AM	9 types of authentication, Appendix E 11:43 AM
10 I don't know enough history on this that what happened 11:40AM	10 As a as a operator, you may or may not choose 11:43AM
11 when. 11:40AM	
	II to have authentication That is totally up to you If II:43AM
12 BY MR. SILBERT: 11:40AM	11 to have authentication That is totally up to you 1f 11:43AM 12 you think your network is very secure, you may choose to 11:43AM
12 BY MR. SILBERT: 11:40AM 13 Q Okay. You are going to agree with me, though, I 11:40AM	
	12 you think your network is very secure, you may choose to 11:43AM
13 Q Okay. You are going to agree with me, though, I 11:40AM	12 you think your network is very secure, you may choose to 11:43AM 13 not have authentication If you really want to secure 11:43AM
13 Q Okay. You are going to agree with me, though, I 11:40AM 14 think, that the standard itself uses the acronym OSPF; 11:40AM	12 you think your network is very secure, you may choose to 11:43AM 13 not have authentication If you really want to secure 11:43AM 14 your network, there are a variety of ways to 11:43AM
13 Q Okay. You are going to agree with me, though, I 11:40AM 14 think, that the standard itself uses the acronym OSPF; 11:40AM 15 right? 11:40AM	12 you think your network is very secure, you may choose to 11:43AM 13 not have authentication. If you really want to secure. 11:43AM 14 your network, there are a variety of ways to 11:43AM 15 authenticate it, and this just refers to that what 11:43AM
13 Q Okay. You are going to agree with me, though, I 11:40AM 14 think, that the standard itself uses the acronym OSPF; 11:40AM 15 right? 11:40AM 16 A The document does create the acronym for the use 11:40AM	12 you think your network is very secure, you may choose to 11:43AM 13 not have authentication. If you really want to secure. 11:43AM 14 your network, there are a variety of ways to 11:43AM 15 authenticate it, and this just refers to that what 11:43AM 16 mechanisms exist at the area level. 11:44AM
13 Q Okay. You are going to agree with me, though, I 11:40AM 14 think, that the standard itself uses the acronym OSPF; 11:40AM 15 right? 11:40AM 16 A The document does create the acronym for the use 11:40AM 17 for the document. 11:40AM	12 you think your network is very secure, you may choose to 11:43AM 13 not have authentication. If you really want to secure. 11:43AM 14 your network, there are a variety of ways to. 11:43AM 15 authenticate it, and this just refers to that what. 11:43AM 16 mechanisms exist at the area level. 11:44AM 17 BY MR SILBERT: 11:44AM
13 Q Okay. You are going to agree with me, though, I 11:40AM 14 think, that the standard itself uses the acronym OSPF; 11:40AM 15 right? 11:40AM 16 A The document does create the acronym for the use 11:40AM 17 for the document. 11:40AM 18 Q Okay. Would you turn to the page that ends in 11:40AM	12 you think your network is very secure, you may choose to 11:43AM 13 not have authentication. If you really want to secure. 11:43AM 14 your network, there are a variety of ways to. 11:43AM 15 authenticate it, and this just refers to that what 11:43AM 16 mechanisms exist at the area level. 11:44AM 17 BY MR SILBERT: 11:44AM 18 Q Okay. And would you agree that authentication is 11:44AM
13 Q Okay. You are going to agree with me, though, I 11:40AM 14 think, that the standard itself uses the acronym OSPF; 11:40AM 15 right? 11:40AM 16 A The document does create the acronym for the use 11:40AM 17 for the document. 11:40AM 18 Q Okay. Would you turn to the page that ends in 11:40AM 19 the Bates No. 622? 11:40AM	12 you think your network is very secure, you may choose to 11:43AM 13 not have authentication. If you really want to secure. 11:43AM 14 your network, there are a variety of ways to 11:43AM 15 authenticate it, and this just refers to that what 11:43AM 16 mechanisms exist at the area level. 11:44AM 17 BY MR SILBERT: 11:44AM 18 Q Okay. And would you agree that authentication is 11:44AM 19 a concept that's introduced in this OSPF specification? 11:44AM
13 Q Okay. You are going to agree with me, though, I 11:40AM 14 think, that the standard itself uses the acronym OSPF; 11:40AM 15 right? 11:40AM 16 A The document does create the acronym for the use 11:40AM 17 for the document. 11:40AM 18 Q Okay. Would you turn to the page that ends in 11:40AM 19 the Bates No. 622? 11:40AM 20 MR. NEUKOM: Sorry, what page, David? 11:40AM 21 MR. SILBERT: Bates No. 622. 11:40AM	12 you think your network is very secure, you may choose to 11:43AM 13 not have authentication. If you really want to secure. 11:43AM 14 your network, there are a variety of ways to 11:43AM 15 authenticate it, and this just refers to that what 11:43AM 16 mechanisms exist at the area level. 11:44AM 17 BY MR SILBERT: 11:44AM 18 Q Okay. And would you agree that authentication is 11:44AM 19 a concept that's introduced in this OSPF specification? 11:44AM 20 MR NEUKOM: Objection; calls for opinion. 11:44AM
13 Q Okay. You are going to agree with me, though, I 11:40AM 14 think, that the standard itself uses the acronym OSPF; 11:40AM 15 right? 11:40AM 16 A The document does create the acronym for the use 11:40AM 17 for the document. 11:40AM 18 Q Okay. Would you turn to the page that ends in 11:40AM 19 the Bates No. 622? 11:40AM 20 MR. NEUKOM: Sorry, what page, David? 11:40AM 21 MR. SILBERT: Bates No. 622. 11:40AM	12 you think your network is very secure, you may choose to 11:43AM 13 not have authentication If you really want to secure 11:43AM 14 your network, there are a variety of ways to 11:43AM 15 authenticate it, and this just refers to that what 11:43AM 16 mechanisms exist at the area level 11:44AM 17 BY MR SILBERT: 11:44AM 18 Q Okay And would you agree that authentication is 11:44AM 19 a concept that's introduced in this OSPF specification? 11:44AM 20 MR NEUKOM: Objection; calls for opinion 11:44AM 21 testimony and vague 11:44AM
13 Q Okay. You are going to agree with me, though, I 11:40AM 14 think, that the standard itself uses the acronym OSPF; 11:40AM 15 right?	12 you think your network is very secure, you may choose to 11:43AM 13 not have authentication. If you really want to secure. 11:43AM 14 your network, there are a variety of ways to. 11:43AM 15 authenticate it, and this just refers to that what 11:43AM 16 mechanisms exist at the area level. 11:44AM 17 BY MR SILBERT:. 11:44AM 18 Q Okay. And would you agree that authentication is 11:44AM 19 a concept that's introduced in this OSPF specification? 11:44AM 20 MR NEUKOM: Objection; calls for opinion. 11:44AM 21 testimony and vague. 11:44AM 22 THE WITNESS: This document has used the term. 11:44AM
13 Q Okay. You are going to agree with me, though, I 11:40AM 14 think, that the standard itself uses the acronym OSPF; 11:40AM 15 right?	12 you think your network is very secure, you may choose to 11:43AM 13 not have authentication. If you really want to secure. 11:43AM 14 your network, there are a variety of ways to 11:43AM 15 authenticate it, and this just refers to that what 11:43AM 16 mechanisms exist at the area level. 11:44AM 17 BY MR SILBERT: 11:44AM 18 Q Okay. And would you agree that authentication is 11:44AM 19 a concept that's introduced in this OSPF specification? 11:44AM 20 MR NEUKOM: Objection; calls for opinion. 11:44AM 21 testimony and vague. 11:44AM 22 THE WITNESS: This document has used the term. 11:44AM 23 "authentication," but basically what we are talking. 11:44AM
13 Q Okay. You are going to agree with me, though, I 11:40AM 14 think, that the standard itself uses the acronym OSPF; 11:40AM 15 right?	12 you think your network is very secure, you may choose to 11:43AM 13 not have authentication. If you really want to secure. 11:43AM 14 your network, there are a variety of ways to 11:43AM 15 authenticate it, and this just refers to that what 11:43AM 16 mechanisms exist at the area level. 11:44AM 17 BY MR SILBERT: 11:44AM 18 Q Okay. And would you agree that authentication is 11:44AM 19 a concept that's introduced in this OSPF specification? 11:44AM 20 MR NEUKOM: Objection; calls for opinion. 11:44AM 21 testimony and vague. 11:44AM 22 THE WITNESS: This document has used the term. 11:44AM 23 "authentication," but basically what we are talking. 11:44AM 24 about is: Are there ways are there ways to validate? 11:44AM

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THORIET COM IDENTIFIED	ATTORCETS BIBS ON BI
1 MR SILBERT: Okay We need to change the tape, 11:44AM	1 Q there is a bold entry "authentication type." 12:25PM
2 so we will have to pause there 11:44AM	2 Do you see that? 12:25PM
3 THE VIDEOGRAPHER: This marks the end of 11:44AM	3 A Yes. 12:25PM
4 Volume 1, Media No 1 of the deposition of Abhay Roy 11:44AM	4 Yeah, so what what that in the what 12:25PM
5 The time is 11:44 a m We are off the record 11:44AM	5 is what it's trying to say in the RFC is if you have 12:25PM
6 (Lunch recess taken) 11:44AM	6 for area some objects one of the objects is the 12:25PM
700o 11:44AM	7 authentication type. That's what that document is 12:25PM
8 11:44AM	8 talking about. 12:25PM
9	9 Q And the the document is getting at the idea 12:25PM
10	10 that an operator can set the authentification type for 12:25PM
11	11 objects in an area; correct? 12:25PM
12	12 MR. NEUKOM: Objection; document speaks for 12:25PM
13	13 itself, calls for opinion testimony. 12:25PM
14	14 THE WITNESS: Yeah, so document is talking about, 12:26PM
15	15 at the area scope, if you support authentication, you 12:26PM
16	16 probably want to store objects related to the 12:26PM
17	17 authentication in that type of data store. 12:26PM
18	18 BY MR. SILBERT: 12:26PM
19	19 Q Okay. So looking at the command "ip ospf 12:26PM
20	20 authentication," the term "ip" in that command refers to 12:26PM
21	21 the Internet protocol standard; right? 12:26PM
22	22 MR. NEUKOM: Objection; misstates prior 12:26PM
23	23 testimony. 12:26PM
24	24 THE WITNESS: "ip" in that command refers to 12:26PM
25	25 Internet Protocol Version 4. 12:26PM
Page 86	Page 88
	10.00
1 AFTERNOON SESSION 12:24 P M 11:44AM	1 BY MR SILBERT: 12:26PM
2 12:24PM	2 Q Okay And that's a standard that's published by 12:26PM
3 THE VIDEOGRAPHER: We are back on the record at 12:24PM	3 the fETF; correct? 12:26PM
4 12:24 p m 12:24 PM	4 A Internet protocol is an RFC 791, which is 12:26PM
5 This marks the beginning of Volume 1, Media No 2 12:24PM	5 published by the IETF, yes 12:26PM
6 of the deposition of Abhay Roy 12:24PM	6 Q Right 12:27PM
7 Please continue 12:24PM	7 And and 791 might be an earlier version, but 12:27PM
8 BY MR SILBERT: 12:24PM	8 are you aware that there's a separate RFC that's a 12:27PM
9 Q Good afternoon, Mr Roy 12:24PM	9 standard for Internet Protocol 4? 12:27PM
Before the lunch hreak, we were talking about the 12:24PM	10 A 1 don't know exactly if if there is a one 12:27PM
11 command "ip ospf authentication" 12:24PM	11 there is a version later than this which supersedes 12:27PM
12 Do you recall that? 12:24PM	12 this 12:27PM
13 A Yes, I do 12:24PM	13 Q Okay 12:27PM
14 Q Do you agree that authentication is a parameter 12:24PM	14 A but there might be; might not be not aware 12:27PM
15 that's introduced in the OSPF specification? 12:24PM	15 Q Okay And in the command "ip ospf 12:27PM
MR NEUKOM: Objection; vague, calls for opinion 12:24PM	16 authentication," "ospf" refers to the OSPF 12:27PM
17 THE WITNESS: 1 think you referred me to some 12:24PM	17 specification, Exhibit 56; correct? 12:27PM
18 section Could you point me to that again? 12:24PM	18 MR NEUKOM: Objection; misstates prior 12:27PM
MR SILBERT: Yeah We were looking at the page 12:24PM	19 testimony 12:27PM
20 that ends in Bates No 624 in Exhibit 56, which is the 12:24PM	20 THE WITNESS: So OSPF command or this command, 12:27PM
21 OSPF specification dated October 1989 12:25PM	21 which is in Cisco's implementation, refers to the 12:27PM
22 THE WITNESS: Was that 624? 12:25PM	22 protocol called "OSPF," which is documented in an IETF 12:27PM
23 MR SILBERT: Yes 12:25PM	23 stand IETF RFC 12:28PM
	24 DULAD GU DEDE
24 Q Yeah, in the top third of the page 12:25PM	24 BY MR SILBERT: 12;28PM
24 Q Yeah, in the top third of the page 12:25PM 25 A Oh, yes Yes Sorry, my bad 12:25PM Page 87	24 BY MR SILBERT: 12:28PM 25 Q Okay And in the term "ip ospf authentication," 12:28PM Page 89

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1 the term "authentication" refers to an authentication 12:28PM	1 drawπ on in coming up with the expression "ip ospf 12:30PM
2 parameter that's described in the OSPF standard; 12:28PM	2 authentication"; correct? 12:31PM
3 correct? 12:28PM	3 MR NEUKOM: Objection; asked and answered 12:31PM
4 MR NEUKOM: Objection; calls for opinion 12:28PM	4 THE WITNESS: Resources could you could you 12:31PM
5 testimony and document speaks for itself 12:28PM	5 rephrase what resources? 12:31PM
6 THE WITNESS: So OSPF RFC does use the language 12:28PM	6 MR SILBERT: Sure 12:31PM
7 "authentication," and Cisco's CLI also happens to use 12:28PM	7 Q Do you know if the person or people who came up 12:31PM
8 the lauguage "authentication"; although, we are 12:28PM	8 with this expression had the OSPF standard in front of 12:31PM
9 primarily talking about how to secure, how to validate 12:28PM	9 them when they came up with the expression? 12:31PM
	10 A Again, I can't say that with with certainty 12:31PM
	11 They may or may not have referred to the standard 12:31PM
12 Q Okay Are you saying that your command uses 12:28PM	12 Q Okay And do you know whether the person or 12:31PM
13 "authentication" in a different way than the standard 12:28PM	13 people who came up with this expression derived it from 12:31PM
14 does? 12:28PM	14 a pre-existing expression? 12:31PM
15 A So the so the section we are looking at in the 12:28PM	15 MR NEUKOM: Objection; calls for opinion 12:31PM
16 standard is at the area scope versus the command we are 12:28PM	16 testimony and legal conclusion 12:31PM
17 looking at is at the interface scope They are two 12:29PM	17 THE WITNESS: Yeah, so I have some more context 12:31PM
18 different things The scope is different 12:29PM	18 on that 12:31PM
19 Q I see Okay 12:29PM	19 What you just saw in in the RFC what I was 12:31PM
20 I think we have covered this in general, but I 12:29PM	20 saying, it's area scope Cisco actually supports that 12:31PM
21 just want to be clear 12:29PM	21 command also There is a similar command at the area 12:31PM
22 Is it correct that you do not know who actually 12:29PM	22 scope 12:32PM
23 named the command "ip ospf authentication" at Cisco? 12:29PM	23 When when we did this, this was sort of over 12:32PM
24 A So as 1 as I have said in the past, I was part 12:29PM	24 and beyond what standards do, and this is where Cisco's 12:32PM
25 of the team I did participate in the team to come up 12:29PM	25 value-add came in We saw people who wanted to do this 12:32PM
Page 90	Page 92
1 with this. Was it exactly my idea or somebody else's 12:29PM	1 type of behavior in specific interfaces and not all 12:32PM
2 idea? That I don't specifically recall, but I was part 12:29PM	2 interfaces which are part of an area So this was 12:32PM
3 of the team who came up with the the keyword, and I 12:29PM	3 created to be similar to what the area command Cisco 12:32PM
4 was part of the team which was doing the implementation. 12:29PM	
•	1 4 already has 12:32PM 5 BY MR SILBERT: 12:32PM
6 actual process of coming up with this command; correct? 12:29PM 7 MR. NEUKOM: Objection: misstates prior 12:29PM	6 Q Okay And is that area command that Cisco 12:32PM 7 already had "ip ospf authentication-key"? 12:32PM
, , , , , , , , , , , , , , , , , , , ,	
8 testimony. 12:30PM	8 A No That is we are still looking at interface 12:32PM
9 THE WITNESS: Specifically what happened for this 12:30PM	9 scope commands It will be probably in a different 12:32PM
10 particular command and what process, I don't have a 12:30PM	10 context 1t will be under routing context, and the 12:32PM
11 specific memory, but as I have said earlier, the way the 12:30PM	11 command will be called different I don't recall what 12:32PM
12 process is, is one or or more engineers come up with 12:30PM	12 the command is exactly called, but that is not the 12:32PM
13 certain set of keywords. We have a discussion, And 12:30PM	13 command 12:32PM
14 then we arrive at what finally happens. And then there 12:30PM	14 Q Okay What what is the command that you are 12:32PM
15 was more about parser police, but I'll not go into that. 12:30PM	15 saying the command "ip ospf authentication" was designed 12:33PM
16 BY MR. SILBERT: 12:30PM	16 to be similar to? 12:33PM
17 Q Okay. And with respect to this command, you 12:30PM	17 MR NEUKOM: Objection; misstates prior 12:33PM
18 don't know who came up with the expression; correct? 12:30PM	18 testimony 12:33PM
19 MR. NEUKOM: Objection; asked and answered. 12:30PM	19 THE WITNESS: 1 don't recall the exact syntax of 12:33PM
20 THE WITNESS: So I participated in the team of 12:30PM	20 that command, but it will be it will be in a 12:33PM
21 engineers who came up with this, but I can't tell you 12:30PM	21 different context It will be in the router context, 12:33PM
22 exactly the engineer who uttered the word, "This is 12:30PM	22 not in the interface context 12:33PM
23 exactly what we should call it." 12:30PM	23 BY MR SILBERT: 12:33PM
24 BY MR. SILBERT: 12:30PM	24 Q How would I find that command if I wanted to find 12:33 PM
25 Q Okay. And you don't know what resources were 12:30PM	25 it? 12:33PM
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1 A If you saw a complete reference of OSPF 12:33PM	1 A-c-e-e, Lindem, L-i-n-d-e-m, but I'm not 100 percent 12:37PM
2 configuration on a device, we could find it from there. 12:33PM	2 sure if he was still on that team or he left Cisco by 12:37PM
3 Q What would I look for to find it? 12:33PM	3 that time. 12:37PM
4 A You could search for keywords like "area" or 12:33PM	4 Q Okay. Can you remember any other names of people 12:37PN
5 "authentication." 12:33PM	5 who were on the team? 12:37PM
6 Q Okay. Who else was on the team who came up with 12:33P	
7 the command "ip ospf authentication"? 12:33PM	7 Q Okay. Referring back to Exhibit 54, would you 12:38PM
8 A So I'm trying to recollect who all were part of 12:34PM	8 please turn to page 12. 12:38PM
9 the OSPF team. There were probably a small set of 12:34PM	9 A Yeah, I'm there. 12:38PM
10 people. 12:34PM	10 Q In the bottom third of the page, do you see the 12:38PM
11 Are you looking for specific names? 12:34PM	11 command expression "ip ospf bfd"? 12:38PM
12 Q Yes. 12:34PM	12 A Yes, 12:38PM
13 A One person I could think of is Derek Yeung. 12:34PM	13 Q Okay. And then in the next column with the 12:38PM
14 Q Can you spell that, please. 12:34PM	14 heading "Author/Originator Information," it says "Cisco" 12:38PM
15 A Actually, he calls himself Derek, but the 12:34PM	15 and your name; correct? 12:38PM
16 okay. D-r-e-k [sic] and Yeung is Y-e-u-n-g. 12:34PM	16 A Yes. 12:38PM
17 Q Okay. 12:34PM	17 Q Did you come up with the expression "ip ospf 12:38PM
18 A He was he was one of the senior guys in the 12:34PM	18 bfd"? 12:38PM
19 team. 12:34PM	19 A Yeah, so BFD I was the lead implementer of it 12:38PM
20 Who were other people around that time. There 12:34PM	20 and very likely I proposed the the command. 12:39PM
21 was there was somebody called Padma, P-a-d-m-a. Her 12:34Pl	
22 last name was Esnault, E-s-n-a-u-l-t. And these two 12:34PM	22 command. 12:39PM
23 names I can remember very clearly. There may be more 12:35PM	
24 people who were part of the OSPF team at that time. 12:35PM	24 A I don't remember anybody else worked on it, so 12:39PM
25 Q Is that the best recollection you have, as you 12:35PM	25 I I proposed the command. Yeah, I think I proposed 12:39PM
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1 sit here today, of who else was on the team that came up 12:35PM	1 the command I don't think there was anybody else on 12:39PM
2 with the command "ip ospf authentication"? 12:35PM	2 this project 12:39PM
3 A Yes 12:35PM	3 Q Okay And I appreciate your reasons for saying 12:39PM
4 Q Okay Who else was on the team that came up with 12:35PM	4 that, but my question is: Do you have any recollection 12:39PM
5 the command "bfd all-interfaces"? 12:35PM	5 of proposing this command "ip ospf bfd"? 12:39PM
6 A That was on page 3? 12:35PM	6 A Yes 12:39PM
7 Q Correct 12:35PM	7 MR NEUKOM: Objection; asked and answered 12:39PM
8 MR NEUKOM: Page 3 of Exhibit 54 12:35PM	8 BY MR SILBERT: 12:39PM
9 THE WITNESS: This is actually much later than 12:36PM	9 Q What's your recollection? 12:39PM
10 that, so this I'm just going with the date, which is 12:36PM	10 A I remember the document which described this, and 12:39PM
11 also listed here, 2004 to 2005 We had different 12:36PM	11 I think I was I was the author of the document It's 12:39PM
12 engineers around that time on those PF [phonetic] team 12:36PM	12 a small amount of work And generally what happens is 12:39PM
13 Couple names I can recollect One was Liem, L-i-e-ın, 12:36PM	13 if there is large project, you have a larger group of 12:39PM
14 and Nguyen, N-g-y-u-e-n, 1 think Last name may have 12:36PM	14 people who work on the project For smaller ones, you 12:40PM
15 spelled incorrectly Another engineer was Peter, 12:36PM	15 are the sole implementer, so you pretty much do most of 12:40PM
16 P-e-t-e-r, Psenak, P-s-e-n-a-k There are probably more 12:36PM	16 the work, all the way from designing the command and the 12:40PM
17 names, but those are a couple of names 12:37PM	17 implementation This was another smaller features 12:40PM
18 BY MR SILBERT: 12:37PM	18 Q Okay The term "ip" in the command "ip ospf bfd" 12:40PM
19 Q Okay Are you able to tell me any other names of 12:37PM	19 refers to the Internet protocol standard that's 12:40PM
20 people who are on the team who named the command 12:37PM	20 specified by the IETF; correct? 12:40PM
21 "bfd all-interfaces"? 12:37PM	21 A "ip" in this command refers to Internet Protocol 12:40PM
22 A Yeah, I don't recall any more specific names 1 12:37PM	22 Version 4, which is documented in RFC 791, and there 12:40PM
23 mean, there are people around that time, but I want to 12:37PM	23 might be further revisions of it, if not 12:40PM
24 make sure that they were in Cisco at that time 12:37PM	24 Q Okay And the tenn "ospf" in the command 12:40PM
25 For example, there is one engineer called Acee, 12:37PM	2. Vokaj raid ine term bapi in the command 12.701 W
	25 "in cenf hfd" refere to the OSPE standard that's 12-40PM
Page 95	25 "ip ospf bfd" refers to the OSPF standard that's 12:40PM Page 97

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1 specified by the IETF; correct? 12:40PM	1 the OSPF standard, a newer version than what you have 12:45PM
2 A Yes 12:40PM	2 shown me, and it talks about if you are compliant to 12:45PM
3 MR NEUKOM: Objection; misstates prior 12:41PM	3 that version, that implementation could use BFD 12:45PM
4 testimony, calls for opinion 12:41PM	4 services 12:45PM
5 THE WITNESS: The OSPF acronym we have used is 12:41PM	5 BY MR SILBERT: 12:45PM
6 for Open Shortest Path First protocol, which is also 12:41PM	6 Q Okay What resources did you use when naming the 12:45PM
7 described and captured in RFC 12:41PM	7 "ip ospf bfd" command? 12:46PM
8 BY MR SILBERT: 12:41PM	8 MR NEUKOM: Objection; vague 12:46PM
9 Q Okay And the the term "bfd" in the command 12:41PM	9 THE WITNESS: By "resources" you are implying 12:46PM
10 "ip ospf bfd" refers to the BFD standard that's 12:41PM	10 what type of material documents, those kind of things? 12:46PM
12 A BFD acronym stands for Bidirectional Forwarding 12:41PM	THE WITNESS: 1 had looked at the specification, 12:46PM
13 Detection, which is which is, yes, also captured in 12:41PM	13 of course It I don't know if it was this version or 12:46PM
14 IETF RFC 12:41PM	14 if it was an earlier version of of the BFD protocol 12:46PM
15 Q And the BFD standard itself describes using BFD 12:41PM	15 specification, and beyond that, it may have been some 12:46PM
16 with OSPF; is that correct? 12:41PM	16 conversation about who wants it, but I don't have any 12:46PM
17 MR NEUKOM: Objection; document calls for its 12:41PM	17 specific recollection was there a formal Product 12:46PM
18 pardon me Document speaks for itself, calls for 12:42PM	18 Requirement Document also written with it 12:46PM
19 opinion testimony 12:42PM	19 BY MR SILBERT: 12:46PM
20 THE WITNESS: BFD spec again, my recollection 12:42PM	20 Q What do you mean when you say "some conversation 12:47PM
21 is BFD spec was written in a more generic sense. It may 12:42PM	21 about who wants it"? 12:47PM
22 or may not have explicitly called out how and which 12:42PM	22 A Yes As I was saying earlier, most of the things 12:47PM
23 protocols you can you can make use of it, but, again, 12:42PM	23 we implement are of two categories, typically 12:47PM
24 if you have some more text, I can look into it 12:42PM	24 One is customer-driven, which is, you are talking 12:47PM
25 // 12:42PM	25 to certain customers They are telling you they want 12:47PM
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l (Exhibit 57 was marked for 12:42PM	1 this time of tacking low. They was to build that 12:47DM
	1 this type of technology Then you try to build that 12:47PM
2 identification by the Court Reporter) 12:43PM	2 technology 12:47PM
3 BY MR SILBERT: 12:43PM	3 Or they are innovation-driven, which is we want 12:47PM
	· · · · · · · · · · · · · · · · · · ·
4 Q Mr Roy, would you please look at Exhibit 57 and 12:43PM	4 to showcase some new things which we have built, and 12:47PM
4 Q Mr Roy, would you please look at Exhibit 57 and 12:43PM 5 tell me if you recognize it 12:43PM	4 to showcase some new things which we have built, and 12:47PM 5 they are more outwards 12:47PM
4 Q Mr Roy, would you please look at Exhibit 57 and 12:43PM 5 tell me if you recognize it 12:43PM 6 A Yes, I do 12:43PM	4 to showcase some new things which we have built, and 12:47PM 5 they are more outwards 12:47PM 6 In the latter, you will not have a customer 12:47PM
4 Q Mr Roy, would you please look at Exhibit 57 and 12:43PM 5 tell me if you recognize it 12:43PM 6 A Yes, I do 12:43PM 7 Q What is it? 12:44PM	4 to showcase some new things which we have built, and 12:47PM 5 they are more outwards 12:47PM
4 Q Mr Roy, would you please look at Exhibit 57 and 12:43PM 5 tell me if you recognize it 12:43PM 6 A Yes, I do 12:43PM	4 to showcase some new things which we have built, and 12:47PM 5 they are more outwards 12:47PM 6 In the latter, you will not have a customer 12:47PM
4 Q Mr Roy, would you please look at Exhibit 57 and 12:43PM 5 tell me if you recognize it 12:43PM 6 A Yes, I do 12:43PM 7 Q What is it? 12:44PM	4 to showcase some new things which we have built, and 12:47PM 5 they are more outwards 12:47PM 6 In the latter, you will not have a customer 12:47PM 7 requirement document or Product Requirement Document 12:47PM
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2 THE WITNESS: Clay I mean, from -1 mean, this 12-18PM 2 is probably a more breader comment of fort recall 12-24PM 3 implement They typically gold shout the entoniar wints 12-34PM 4 implement They typically gold shout the entoniar wints 12-34PM 5 implement from the CLI perspective. That will be mer. 12-18PM 6 implement from the CLI perspective. That will be mer. 12-18PM 7 if somethody evan ventures into that 12-34PM 8 BYMR SILBERT: 12-34PM 9 Q As you are used continued. 12-34PM 11 MR NEUKOM: Same objectious, vague, compound 12-49PM 12 THE WITNESS: Pan of not more of anything in 12-49PM 13 Particular 12-24PM 14 DYMR SILBERT: 12-24PM 15 Q Are you arene of anything in general? 12-49PM 16 Q Are you arene of anything in general? 12-49PM 17 Dyleady happens if a new probable goes not concerned will be probably appens if a new probable goes not concerned will be probably appens if a new probable goes not concerned will be probably appens if a new probable goes not concerned will be probably appens if a new probable goes not concerned will be probably appens if a new probable goes not concerned will be probably appens if a new probable goes not concerned will be probably appens if a new probable goes not read a were a concerned will be probably appens if a new probable goes not concerned will be probably appens if a new probable goes not concerned will be probably appens if a new probable goes not concerned will be probably appens if a new probable goes not concerned will be probably appens if a new probable goes not concerned will be probably appens if a new probable goes not concerned will be probably appens if a new probable goes not concerned will be probable goes not concerned will be probably appens if a new probable goes not concerned will be probably appens if a new probable goes not concerned will be probably appens if a new probable goes not concerned will be probably appens if a new probable goes not concerned will be probably appens if a new probable goes not concerned will be probably appens if a new probab		
3	1 THE WITNESS: Okay I mean, from I mean, this 12:48PM	1 some other command? 12:51PM
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1 Q What is it? 12:55PM	1 is done, go with it. 12:58PM
2 A This is an RFC which captures all the 12:55PM	2 Some of the other ways to do that could be, you 12:58PM
3 specifications for Internet Protocol Version 6. 12:55PM	3 could just say "ospfv3 area." We chose to call it "ipv6 12:58PM
4 Q Okay. And the title is "Internet Protocol 12:55PM	4 ospf area." 12:59PM
5 Version 6 (IPv6) Specification"; correct? 12:55PM	5 BY MR. SILBERT: 12:59PM
6 A That is correct. 12:55PM	6 Q And and did you model the command "ipv6 ospf 12:59PM
7 Q Okay. And does this refresh your recollection 12:55PM	7 area" on the pre-existing command "ip ospf area"? 12:59PM
8 that the Internet Protocol Version 6 specification 12:55PM	8 MR. NEUKOM: Objection; vague. 12:59PM
9 itself uses the acronym IPv6? 12:55PM	9 THE WITNESS: The pre-existence of "ip ospf area" 12:59PM
10 A This document does introduce the acronym IPv6, 12:55PM	10 was a strong motivator for us to converge on this 12:59PM
11 again, for the purposes of making the document more 12:55PM	
12 readable and not having to expand Internet Protocol 12:56PM	12 BY MR. SILBERT: 12:59PM
13 Version 6 everywhere. 12:56PM	13 Q Okay. Who else was on the team that I mean, I 12:59PM
14 Q And in the command "ipv6 ospf area," the term 12:56PM	14 understand you are saying you you did come up with 12:59PM
15 "ipv6" refers to this protocol, Exhibit 58; correct? 12:56PM	15 this command, but who else was on the team with you at 12:59PM
16 A The term IP yes, "ipv6" refers to the Internet 12:56PM	16 the time you came up with this command? And by "this 12:59PM
17 Protocol Version 6, which is described in this RFC. 12:56PM	17 command," I'm referring to "ipv6 ospf area." 12:59PM
18 Q Okay. And in the command "ipv6 ospf area," the 12:56PM	18 A I think there were multiple engineers. I can't 12:59PM
19 term "ospf" refers to the OSPF standard published by the 12:56PM	19 recollect the exact names at this point. 01:00PM
20 IETF; correct? 12:56PM	20 Q Okay. Let's move on. 01:00PM
21 A Not really. So if you just say "OSPF," you might 12:56PM	21 Do you still have page 16 of Exhibit 54 in front 01:00PM
22 think OSPF Version 2, and that's where you have to see 12:56PM	22 of you? 01:00PM
23 the whole context of what we are talking about. 12:56PM	23 A Yes, I do. 01:00PM
24 IPv6 OSPF is OSPF Version 3. So these two words 12:57PM	24 Q Next is "ipv6 ospf cost." 01:00PM
25 combined, IPv6 and OSPF, actually tells you to look at a 12:57PM	25 Do you see that, second from the bottom? 01:00PM
Page 106	Page 108
1 different RFC, which is the OSPF Version 3 RFC, but if 12:57PM	1 A Yes, I do. 01:00PM
2 you just told me "OSPF," I would have interpreted it as 12:57PM	2 Q And, again, you are indicated as the author, 01:00PM
3 you mean OSPF Version 2, which is a different RFC, just 12:57PM	3 slash, originator with respect to that command 01:00PM
4 for semantics 12:57PM	4 expression. 01:00PM
5 Q Understood, and you explained to me previously 12:57PM	5 Do you see that? 01:00PM
6 that the reason OSPF Version 3 was developed was to 12:57PM	6 A Yes. 01:00PM
-	7 MR. NEUKOM: Objection; misstates 01:00PM
,	8 mischaracterizes the document, 01:01PM
9 Q Okay And we may have discussed this earlier, 12:57PM	
10 but area is a parameter that's introduced in the OSPF 12:57PM	10 Q Okay. You and Cisco are indicated as the author, 01:01PM
11 specification; correct? 12:57PM	11 slash, originator; is that correct? 01:01PM
12 A Area is a collection or a cluster of devices 12:57PM	12 A Yeah, that's correct. 01:01PM
13 That concept does exist in in the RFCs, yes 12:57PM	13 Q And did you come up with the expression "ipv6 01:01PM
14 Q Okay And the RFCs refer to it as "area"; right? 12:57PM	14 ospf cost"? 01:01PM
15 A RFC documents does use the word "area," yes 12:57PM	15 A Yeah, it's the same. If you see the document, 01:01PM
16 Q Okay Is it a fair statement that when you came 12:58PM	16 which it lists the EK number, it's part of the same 01:01PM
17 up with the command "ipv6 ospf area," what you did was 12:58PM	17 document, so this and anything which talks about IPv6 01:01PM
18 refer to the pre-existing command "ip ospf area" and 12:58PM	18 OSPF is all part of sort of one development deferred, 01:01PM
19 changed the "ip" to "ipv6" because you were now dealing 12:58PM	19 and all those commands pretty much follow the same 01:01PM
20 with the IP Version 6? 12:58PM	20 paradigm. 01:01PM
21 MR NEUKOM: Objection; vague and compound 12:58PM	21 But to answer your specific question, yes, I 01:01PM
22 THE WITNESS: So we looked at we looked at 12:58PM	22 wrote that document and pretty much came up with the 01:01PM
23 what is existing in in Cisco IOS implementation, and 12:58PM	23 whole IPv6 OSPF command set. 01:01PM
24 that, generally, is one of the overriding things; that 12:58PM	
	24 Q And we can go through these one by one, and I 01:01PM
25 don't reinvent the wheel If there is something which 12:58PM	24 Q And we can go through these one by one, and I 01:01PM 25 suspect we will, but isn't it true that for every 01:01PM

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1 Q Right. 01:03PM 2 And in the command "ipv6 ospf cost," "ospf" 01:03PM 3 refers to Version 3 of the OSPF standard that's 01:03PM 4 specified by the IETF; correct? 01:03PM 5 A Correct. In this context, "ipv6" refers to 01:03PM 6 Version 3 of Internet RPC, yes. 01:04PM 7 Q And cost is a parameter that's described in the 01:04PM 8 OSPF specification; correct? 01:04PM 9 A 1 have to refer to that, if you have handy, if 01:04PM 10 you can point me. 01:04PM 11 Q Sure. 01:04PM 12 So if you go to the OSPF specification, which is 01:04PM 13 RFC 1131, which is Exhibit 01:04PM 14 A 56. 01:04PM 15 Q 56 01:04PM 16 A Yeah. 01:05PM 17 Q and look at the page that ends with the Bates 01:05PM 18 No. 6007. 01:05PM 19 A 6007. 01:05PM 20 Q I'm looking at the first full paragraph at the 01:05PM 21 top of that page. 01:05PM 22 Do you see where it says, "A cost is associated 01:05PM 23 with the output side of each router interface. This 01:05PM 24 Q I'm looking at the first full paragraph at the 01:05PM 25 Do you see where it says, "A cost is associated 01:05PM 26 Do you see where it says, "A cost is associated 01:05PM 27 Q Do you see where it says, "A cost is associated 01:05PM 28 Do you see where it says, "A cost is associated 01:05PM 29 Q Version 6 as of the correct, I think we need 01:07PM 20 Q I'm looking at the first full paragraph at the 01:05PM 20 Q I'm looking at the first full paragraph at the 01:05PM 20 Q I'm looking at the first full paragraph at the 01:05PM 21 top of that page. 01:05PM 22 Do you see where it says, "A cost is associated 01:05PM 23 with the output side of each router interface. This 01:05PM 24 Q I'm looking at the first full paragraph at the 01:05PM 25 Do you see where it says, "A cost is associated 01:05PM 26 Do you see where it says, "A cost is associated 01:05PM 27 Version 6 as specified by the IETF; correct? 01:08PM		
3 command is identical to a pre-existing command, with the 01:02PM 4 only difference that the pre-existing command used "pi" 01:02PM 5 instead of "pivo"? 01:02PM 6 MR. NEUKOM: Objection; vague, compound. 01:02PM 7 THE WTINESS: So I'll have to see the -the 01:02PM 8 complete list of cummands to make that statement. Pm 01:02PM 9 not sure if this has the complete list, but if you have 01:02PM 10 the both - the command str	1 command for which your name appears in the 01:01PM	1 A Yes, I see that 01:05PM
4 administrator can configure? 01.05PM 5 instead of "ipv6"? 01.02PM 6 MR. NEUKOM: Objection, vague, compound. 01.02PM 7 THE WITNESS: So FI have to see the the 01.02PM 8 complete list of commands to make that statement. I'm 01.02PM 9 not sure if this has the complete list, that if you have 01.02PM 10 the both the command set 01.02PM 11 BY MR. SILBERT: 01.02PM 12 Q Well, you do have it in front of you in this 01.02PM 13 large document, but I dor't know that it site best use 01.02PM 14 of our collective time to for you to go poin by 01.02PM 15 point. 01.02PM 16 A Sure. 01.02PM 17 Q with respect to specifically the command "ipv6" 01.02PM 18 ospf cost," 'did you model that on a pre-existing command 01.02PM 18 ospf cost," 'did you model that on a pre-existing command 01.02PM 19 used at Cisco, "ip ospf cost." '01.02PM 10 Q A Yes, this correct. 01.03PM 21 Q Cokay. And in the command, 'ipv6" refers to 01.03PM 22 Version 6 of the IP standard that's specified by the 01.03PM 23 IETT: correct? 01.03PM 24 A Correct. 'ipv6" refers to 10.03PM 25 Version 6 as specified in the RFC. 01.03PM 26 A Correct. 'ipv6" refers to 10.03PM 27 Q And cost is a parameter that's described in the 01.03PM 28 A Correct. 'ipv6" refers to 10.03PM 39 Refers to Version 3 of the OSPF standard that's 01.03PM 40 Correct in this context, 'ipv6" refers to 10.03PM 50 Correct of this context, 'ipv6" refers to 10.03PM 50 Correct in this context, 'ipv6" refers to 10.03PM 50 Correct in this context, 'ipv6" refers to 10.03PM 50 Correct in this context, 'ipv6" refers to 10.03PM 50 Correct in this context, 'ipv6" refers to 10.03PM 50 Correct in this context, 'ipv6" refers to 10.03PM 50 Correct in this context, 'ipv6" refers to 10.03PM 50 Correct in this context, 'ipv6" refers to 10.03PM 50 Correct in this context, 'ipv6" refers to 10.03PM 50 Correct in this context, 'ipv6" refers to 10.03PM 50 Correct in this context, 'ipv6" refers to 10.03PM 50 Correct in this context, 'ipv6" refers to 10.03PM 50 Correct in this context, 'ipv6" refers to 10.03PM 60 Co	2 author/originator column that starts with "ipv6," that 01:02PM	2 Q So do you agree that the OSPF specification 01:05PM
5 instead of "ipv6"? 01:02PM 0	3 command is identical to a pre-existing command, with the 01:02PM	3 describes cost as a parameter that the system 01:05PM
6 MR. NELKOM: Objection; vague, compound. 01:02PM 7 THE WITNESS: So I'll have to see the the 01:02PM 8 complete list of commands to make that statement. I'm 01:02PM 9 not store if this has the complete list, but if you have 01:02PM 10 the both the complete list, but if you have 01:02PM 10 the both the complete list, but if you have 01:02PM 11 BY MR. SILBERT: 01:02PM 11 BY MR. SILBERT: 01:02PM 12 Q Well, you do have it in front of you in this 01:02PM 13 large document, but I don't know that it's the best use 01:02PM 14 of our collective time tor for you to go point by 01:02PM 15 point. 01:02PM 15 point. 01:02PM 16 A Sure. 01:02PM 18 cospf cost," did you model that on a pre-existing command 01:02PM 18 cospf cost," did you model that on a pre-existing command 01:02PM 19 used at Cison," in ospf cost," ospf cost," ospf ospf cost," injust? 01:03PM 12 Q Swa, And in the command, "ipv6" refers to 10:03PM 12 Q Swa, And in the command, "ipv6" refers to 10:03PM 12 Q Swa, And in the command, "ipv6" refers to 10:03PM 12 Q Swa, And in the command, "ipv6 ospf cost," "ospf" 01:03PM 12 Q Swa, And in the command, "ipv6 ospf cost," "ospf" 01:03PM 12 Q Swa, And in the command, "ipv6 ospf cost," "ospf" 01:03PM 12 Q Swa, And in the command, "ipv6 ospf cost," "ospf" 01:03PM 12 Q Swa, And in the command, "ipv6 ospf cost," "ospf" 01:03PM 12 Q Swa, And in the Command "ipv6 ospf cost," "ospf" 01:03PM 13 Q Swa, Mall is the command "ipv6 ospf cost," "ospf" 01:03PM 14 Q Swa, And in the Command "ipv6 ospf cost," "ospf" 01:03PM 15 Q Swa, Mall is the command "ipv6 ospf cost," "ospf" 01:03PM 15 Q Swa, Mall is the command "ipv6 ospf cost," "ospf" 01:03PM 15 Q Swa, Mall is the command "ipv6 ospf cost," "ospf" 01:03PM 16 Q Swa, Mall is the command "ipv6 ospf cost," "ospf" 01:03PM 16 Q Swa, Mall is the command "ipv6 ospf cost," "ospf" 01:03PM 16 Q Swa, Mall is the command "ipv6 ospf cost," "ospf" 01:03PM 16 Q Swa, Mall is the command "ipv6 ospf cost," "ospf" 01:03PM	4 only difference that the pre-existing command used "ip" 01:02PM	4 administrator can configure? 01:05PM
7	5 instead of "ipv6"? 01:02PM	5 MR NEUKOM: Objection; document speaks for 01:05PM
8 complete list of commands to make that statement. I'm 01:02PM 9 not sure if this has the complete list, but if you have 01:02PM 10 the both—the command set — 01:02PM 11 BY MR. SILBERT: 01:02PM 12 Q Well, you do have it in front of you in this 01:02PM 13 large document, but I don't know that it's the beat use 01:02PM 14 of our collective time to —for you to go point by 01:02PM 15 point. 01:02PM 15 point. 01:02PM 16 A Sure. 01:02PM 17 Q With respect to specifically the command "ipv6 01:02PM 18 complete of the command "ipv6 01:02PM 19 used at Cisco, "ip ospf cost," of dyou model that on a pre-existing command 01:02PM 19 used at Cisco, "ip ospf cost," of dyou model that on a pre-existing command 01:02PM 19 used at Cisco, "ip ospf cost," of dyou model that on a pre-existing command 01:02PM 12 Q Kay. And in the command, "ipv6" refers to 10:03PM 12 Users on 6 of the IP standard that's specified by the 01:03PM 12 Version 6 as specified in the RFC. 01:03PM 12 I EFTF, correct? 01:03PM 12 Q Right. 01:03PM 12 Q Right. 01:03PM 12 Q Right. 01:03PM 13 Correct. "ipv6" refers to Internet Protocol 01:03PM 14 Specified by the 1ETF; correct? 01:03PM 15 A Correct. "ipv6" refers to Internet Protocol 01:03PM 16 Q Right. 01:03PM 16 Q Right. 01:03PM 17 Q And to the command "ipv6 ospf cost," "ospf" 01:03PM 17 Q And cost is a parameter that's described in the 01:04PM 18 Correct? 01:04PM 19 Q Lough that, if you have handy, if 01:04PM 19 Q Lough that, if you have handy, if 01:04PM 19 Q Can and look at the page that ends with the Bates 01:05PM 19 Q Can and look at the page that ends with the Bates 01:05PM 19 Q Can and look at the page that ends with the Bates 01:05PM 19 Q Can and look at the page that ends with the Bates 01:05PM 19 Q Can and look at the page that ends with the Bates 01:05PM 19 Q Can and look at the page that ends with the Bates 01:05PM 19 Q Can and look at the page that ends with the Bates 01:05PM 19 Q Can and look at the page that ends with the Bates 01:05PM 19 Q Can and look at the page that ends with the Bates 01:05PM	6 MR. NEUKOM: Objection; vague, compound. 01:02PM	6 itself To the extent it doesn't, calls for opinion 01:05PM
9 not sure if this has the complete list, but if you have 01:02PM 10 the both the command set 01:02PM 11 BY MR SILBERT. 01:02PM 12 Q Well, you do have it in front of you in this 01:02PM 13 large document, but I don't know that it's the best use 01:02PM 14 of our collective time to for you to go poin by 01:02PM 15 point. 01:02PM 15 point. 01:02PM 16 A Sure. 01:02PM 17 Q Well, you do have it in front of you in this 01:02PM 18 ospf cost," did you model that on a pre-existing command 01:02PM 16 A Sure. 01:02PM 17 Q Well respect to specifically the command 'ipv6' of refers to 01:02PM 18 ospf cost," did you model that on a pre-existing command 01:02PM 18 ospf cost," did you model that on a pre-existing command 01:02PM 19 used at Cisco, "ip ospf cost," 01:02PM 19 used at Ci	7 THE WITNESS: So I'll have to see the the 01:02PM	7 THE WITNESS: So document is using the language 01:05PM
10 the both — the command set —	8 complete list of commands to make that statement. I'm 01:02PM	8 with the word "cost " Now, you could use cost metric, a 01:06PM
11 BYMR. SILBERT:	9 not sure if this has the complete list, but if you have 01:02PM	9 number, but I do structurally see what you mean 1 01:06PM
12 Q Well, you do have it in front of you in this 01-02PM 13 large document, but I dor't know that it's the best use 01-02PM 14 of our collective time to for you to go point by 01-02PM 15 point 01-02PM 15 point 01-02PM 15 point 01-02PM 16 A Sure. 01-02PM 17 Q With respect to specifically the command "ipv6" 01-02PM 18 command "ipv6" 01-02PM 19 used at Cisco, "ip ospf cost." 01-02PM 19 Q Aves, that is correct 01-03PM 20 Q kay, And in the command, "ipv6" refers to 01-03PM 21 A Then wo ords are the same 01-06PM 22 Version 6 of the IP standard that's specified by the 01-03PM 23 IEFT; correct? 01-03PM 24 A Correct. "ipv6" refers to Internet Protocol 01-03PM 25 Version 6 as specified in the RFC. 01-03PM 26 A Correct. "ipv6" refers to Internet Protocol 01-03PM 27 A Vealt in the command "ipv6 ospf cost." "ospf" 01-03PM 28 Let's go on I suspect that your explanation 01-07PM 29 Q And cost is a parameter that's described in the 01-03PM 29 Q And cost is a parameter that's described in the 01-04PM 20 Q Cost A Vealt O1-04PM 20 Q Cost A Vealt O1-04PM 20 Q Cost A Vealt O1-04PM 20 Q Cost Co	10 the both the command set 01:02PM	10 don't think the document, at least this paragraph, talks 01:06PM
13 large document, but I don't know that if's the best use 01:02PM 14 cost, but the standard doesn't say you must call it 01:06PM 15 point 01:02PM 15 A. The document does use the word "cost" is refer to 01:06PM 16 that, yes 01:06PM 17 Q. With respect to specifically the command "ipyo" 01:02PM 18 cosp cost," did you model that on a pre-existing command 01:02PM 19 used at Cisco, "ip osp foost," 01:02PM 19 used at Cisco, "ip osp foost," 01:02PM 19 used at Cisco, "ip osp foost," 01:03PM 12 Q. Kay, And in the command, "ipyo" refers to 01:03PM 12 Q. Kay, And in the command "ipyo" 01:03PM 12 Version 6 of the IP standard that's specified by the 01:03PM 12 Q. Tistoret? 01:03PM 13 Refers to Version 3 of the OSFP standard that's 01:03PM 14 Specified by the IETF; correct? 01:03PM 15 A. The two words are the same 01:06PM 10:06PM 10	11 BY MR. SILBERT: 01:02PM	11 about you must call it cost, if that makes sense 01:06PM
14 of our collective time to for you to go point by 01:02PM 15 point.	12 Q Well, you do have it in front of you in this 01:02PM	12 BY MR SILBERT: 01:06PM
15 point	13 large document, but I don't know that it's the best use 01:02PM	13 Q Okay The standard doesn't say you must call it 01:06PM
16	14 of our collective time to for you to go point by 01:02PM	14 cost, but the standard does call it "cost"; right? 01:06PM
17 Q With respect to specifically the command "ipv6 01:02PM 18 ospf cost", did you model that on a pre-existing command 01:02PM 19 used at Cisco, "ip ospf cost"? 01:02PM 19 used at Cisco, "ip ospf cost"? 01:03PM 20 A Yes, that is correct. 01:03PM 21 Q Okay. And in the command, "ipv6" refers to 01:03PM 22 Version 6 of the IP standard that's specified by the 01:03PM 23 IETF; correct? 01:03PM 24 A Correct. "ipv6" refers to Internet Protocol 01:03PM 25 Version 6 as specified in the RFC. 01:03PM 26 Version 6 as specified in the RFC. 01:03PM 27 Version 6 as specified in the RFC. 01:03PM 28 And in the command "ipv6 ospf cost," "ospf" 01:03PM 29 Version 3 of the OSPF standard that's 01:03PM 29 Version 3 of Internet RFC, yes. 01:04PM 20 Q And cost is a parameter that's described in the 01:04PM 20 Q Cokay. And in the command "ipv6 ospf cost," "ospf" 01:04PM 20 Q In Inoking at the first full paragraph at the 01:05PM 20 Q I'm looking at the first full paragraph at the 01:05PM 20 Q I'm looking at the first full paragraph at the 01:05PM 20 Q Okay. And in the command "ipv6 ospf cost," "ipv6" refers to 01:05PM 20 Q Okay. And in the command "ipv6 ospf cost," "ipv6" refers to 01:05PM 20 Q Okay. And in the command "ipv6 ospf cost," "ipv6" refers to 01:04PM 20 Q Or Im look at the page that ends with the Bates 01:05PM 20 Q Or Im looking at the first full paragraph at the 01:05PM 20 Q Or Im looking at the first full paragraph at the 01:05PM 20 Q Or Im looking at the first full paragraph at the 01:05PM 20 Q Or Im looking at the first full paragraph at the 01:05PM 20 Q Or Im looking at the first full paragraph at the 01:05PM 20 Q Or Im looking at the first full paragraph at the 01:05PM 20 Q Or Im looking at the first full paragraph at the 01:05PM 20 Q Or Im looking at the first full paragraph at the 01:05PM 20 Q Or Im looking at the first full paragraph at the 01:05PM 20 Q Or Im looking at the first full paragraph at the 01:05PM 20 Q Or Im looking at the first full paragraph at the 01:05PM 20 Q Or Im looking at the first full paragr	15 point. 01:02PM	15 A The document does use the word "cost" to refer to 01:06PM
18 ospf cost, "did you model that on a pre-existing command 01:02PM 19 used at Claco, "ip ospf cost"? 01:03PM 20 A Yes, that is correct. 01:03PM 20 Q Same word thats in the standard? 01:06PM 20 Q Same word thats in the standard? 01:06PM 20 Q Same word that is in the sta	16 A Sure. 01:02PM	16 that, yes 01:06PM
19 used at Cisco, "ip ospf cost"? 101:03PM 20 A Yes, that is correct. 101:03PM 21 Q Okay. And in the command, "ipv6" refers to 101:03PM 22 Version 6 of the IP standard that's specified by the 101:03PM 23 IETF; correct? 101:03PM 24 A Correct. "ipv6" refers to Internet Protocol 101:03PM 25 Version 6 as specified in the RFC. 101:03PM 26 A Correct. "ipv6" refers to Internet Protocol 101:03PM 27 And in the command "ipv6 ospf cost," "ospf" 101:03PM 28 a Yeah 101:03PM 39 refers to Version 3 of the OSPF standard that's 101:03PM 40 specified by the IETF; correct? 101:03PM 40 Version 3 of Internet RFC, 101:03PM 41 Specified by the IETF; correct? 101:03PM 42 Version 3 of Internet RFC, 101:03PM 43 refers to Version 3 of the OSPF standard that's 101:03PM 44 Specified by the IETF; correct? 101:03PM 45 Version 3 of Internet RFC, 101:03PM 46 Version 3 of Internet RFC, 101:03PM 47 Q And cost is a parameter that's described in the 101:04PM 48 OSPF specification; correct? 101:04PM 40 OSPF specification; correct? 101:04PM 51 Q Sure. 101:04PM 51 Q Sure. 101:04PM 52 So if you go to the OSPF specification, which is 101:04PM 53 RFC 1131, which is Exhibit - 101:04PM 54 A So. 101:04PM 55 A Yes. 101:04PM 56 A Yesh 101:04PM 57 Expression" column is "ipv6 ospf dead-interval"? 102 Out can point me. 103:04PM 103 pour can point me. 103:04PM 104 A So. 103:04PM 105 Q So - 101:04PM 107 Q and look at the page that ends with the Bates 101:05PM 108 No. 6007. 109 Q I'm looking at the first full paragraph at the 101:05PM 109 Q I'm looking at the first full paragraph at the 101:05PM 109 Q I'm looking at the first full paragraph at the 101:05PM 109 Q D you see where it says, "A cost is associated 101:05PM 109 Q D you see where it says, "A cost is associated 101:05PM 109 Q D you see where it says, "A cost is associated 101:05PM 109 Q D you see where it says, "A cost is associated 101:05PM 109 Q D you see where it says, "A cost is associated 101:05PM 109 Q D you see where it says, "A cost is associated 101:05PM 109 Q D you see where it says, "A cos	17 Q With respect to specifically the command "ipv6 01:02PM	17 Q And that's the same word that you use in the 01:06PM
20 A Yes, that is correct. 10:03PM 21 Q Okay. And in the command, "ipv6" refers to 01:03PM 22 Version 6 of the IP standard that's specified by the 01:03PM 24 A Correct. "ipv6" refers to Internet Protocol 01:03PM 25 Version 6 as specified in the RPC. 10:03PM 26 A Correct. "ipv6" refers to Internet Protocol 01:03PM 27 And in the command "ipv6 ospf" ospf" 01:03PM 28 A refers to Version 3 of the OSPF standard that's 01:03PM 39 refers to Version 3 of the OSPF standard that's 01:03PM 4 specified by the IETF; correct? 10:03PM 4 specified by the IETF; correct? 10:03PM 5 A Correct. In this comtext, "ipv6" refers to 01:03PM 6 Version 3 of Internet RPC, yes. 01:04PM 7 Q And cost is a parameter that's described in the 01:04PM 8 OSPF specification; correct? 10:04PM 9 A I have to refer to that, if you have handy, if 01:04PM 10 you can point me. 11 Q Sure. 12 Olio4PM 13 RPC I131, which is Exhibit 14 A 56. 10:04PM 15 Q 56 10:04PM 16 A Yeah. 17 Olio5PM 18 No. 6007. 18 No. 6007. 19 A 6007. Okay. 10:05PM 19 A 6007. Okay. 10:05PM 10 you see where it says, "A cost is associated 01:05PM 20 Doy ou see where it says, "A cost is associated 01:05PM 21 Lop of that page. 15 Olio5PM 22 Olio5PPM 23 Same word that's in the standard? 01:06PM 24 The two words are the same 01:06PM 24 going to be similar for this group of IPv6 commands 01:07PM 24 going to be similar for this group of IPv6 commands 01:07PM 25 Let's go on I suspect that your explanation is 01:07PM 26 go on I suspect that your explanation is 01:07PM 27 Q Right. 10 Q But for the sake of the record, I think we need 01:07PM 2 to just cover them all. 10 Q But for the sake of the record, I think we need 01:07PM 2 to just cover them all. 10 Q But for the sake of the record, I think we need 01:07PM 2 to just cover them all. 10 Q But for the sake of the record, I think we need 01:07PM 2 to just cover them all. 10 Q But for the sake of the record, I think we need 01:07PM 2 to just cover them all. 10 Q But for the sake of the record, I think we need 01:07PM 2 t	18 ospf cost," did you model that on a pre-existing command 01:02PM	18 command "ip ospf cost"; right? 01:06PM
21 Q Okay. And in the command, "ipv6" refers to 01:03PM 22 Version 6 of the IP standard that's specified by the 01:03PM 23 IETF; correct? 01:03PM 24 A Correct. "ipv6" refers to Internet Protocol 01:03PM 25 Version 6 as specified in the RFC. 01:03PM 26 And in the command "ipv6 ospf cost," "ospf" 01:03PM 27 And in the command "ipv6 ospf cost," "ospf" 01:03PM 28 And in the command "ipv6 ospf cost," "ospf" 01:03PM 38 refers to Version 3 of the OSPF standard that's 01:03PM 4 specified by the IETF; correct? 01:03PM 4 specified by the IETF; correct? 01:03PM 5 A Correct. In this context, "ipv6" refers to 01:03PM 6 Version 3 of Internet RFC, yes. 01:04PM 7 Q And cost is a parameter that's described in the 01:04PM 8 OSPF specification; correct? 01:04PM 9 A I have to refer to that, if you have handy, if 01:04PM 10 you can point me. 01:04PM 11 Q Sure. 01:04PM 12 So if you go to the OSPF specification, which is 01:04PM 13 RFC 1131, which is Exhibit 01:04PM 14 A 56. 01:04PM 15 Q 56 01:04PM 16 A Yeah. 01:05PM 17 Q and look at the page that ends with the Bates 01:05PM 18 No. 6007. 01:05PM 19 A 6007. Okay. 01:05PM 20 Q I'm looking at the first full paragraph at the 01:05PM 21 Loop of that page. 01:05PM 22 Do you see where it says, "A cost is associated 01:05PM 23 with the output side of each router interface. This 01:05PM 24 Irr lefts to on 1 suspect that your explanation is 01:07PM 25 Left go on 1 suspect that your explanation is 01:07PM 26 Jeft go in the semilar for this group of IPv6 commands 01:07PM 26 Jeft go ing to be similar for this group of IPv6 commands 01:07PM 27 Q Right. 01:07PM 28 District for the sake of the record, I think we need 01:07PM 3 A Yeah, please. 01:03PM 4 Q If you go back to Exhibit 54, we are looking at 01:07PM 5 page 16. 6 Do you go back to Exhibit 54, we are looking at 01:07PM 6 Do you see the last entry there in the "Command 01:07PM 7 Expression" column is "ipv6 ospf dead-interval"? 01:07PM 11 Q Sure. 01:04PM 12 A Yes. 01:07PM 13 Q Did you come up with the expression "ipv6 ospf 01:07PM	19 used at Cisco, "ip ospf cost"? 01:02PM	19 A We have used the word "cost " 01:06PM
22 Version 6 of the IP standard that's specified by the 01:03PM 23 IETF; correct? 01:03PM 24 A Correct. "ipv6" refers to Internet Protocol 01:03PM 25 Version 6 as specified in the RFC. 01:03PM 26 Version 6 as specified in the RFC. 01:03PM 27 Version 6 as specified in the RFC. 01:03PM 29 Rege 110 Page 20 A Yes, that is correct. 01:03PM	20 Q Same word that's in the standard? 01:06PM	
23 IETF; correct? 24 A Correct. "ipv6" refers to Internet Protocol 01:03PM 25 Version 6 as specified in the RFC. 01:03PM 26 Page 110 1 Q Right. 01:03PM 27 And in the command "ipv6 ospf cost;" "ospf" 01:03PM 27 Specified by the IETF; correct? 01:03PM 28 specified by the IETF; correct? 01:03PM 29 A Correct. In this context, "ipv6" refers to 01:03PM 29 A Correct. In this context, "ipv6" refers to 01:03PM 29 A Correct In this context, "ipv6" refers to 01:03PM 20 According to 10:04PM 2	21 Q Okay. And in the command, "ipv6" refers to 01:03PM	21 A The two words are the same 01:06PM
24 A Correct. "ipv6" refers to Internet Protocol 01:03PM 25 Version 6 as specified in the RFC. 01:03PM Page 110 1 Q Right 01:03PM 2 And in the command "ipv6 ospf cost," "ospf" 01:03PM 3 refers to Version 3 of the OSPF standard that's 01:03PM 4 specified by the IETF; correct? 01:03PM 5 A Correct. In this context, "ipv6" refers to 01:03PM 6 Version 3 of Internet RFC, yes. 01:04PM 7 Q And cost is a parameter that's described in the 01:04PM 8 OSPF specification; correct? 01:04PM 9 A 1 have to refer to that, if you have handy, if 01:04PM 10 you can point me. 01:04PM 10 you can point me. 01:04PM 11 Q Sure. 01:04PM 12 So if you go to the OSPF specification, which is 01:04PM 13 RFC 1131, which is Exhibit 01:04PM 13 RFC 1131, which is Exhibit 01:04PM 15 Q 56 01:04PM 16 A Yeah. 01:05PM 17 Q and look at the page that ends with the Bates 01:05PM 18 No. 6007. 01:05PM 19 A 6007. Okay. 01:05PM 19 A 6007. Okay. 01:05PM 20 Q I'm looking at the first full paragraph at the 01:05PM 21 top of that page. 01:05PM 22 Do you see where it says, "A cost is associated 01:05PM 22 Version 6 as specified by the IETF; correct? 01:08PM 23 with the output side of each router interface. This 01:05PM 23 A Yes. It refers to Internet Protocol Version 6 as 01:08PM 23 with the output side of each router interface. This 01:05PM 23 A Yes. It refers to Internet Protocol Version 6 as 01:08PM 23 with the output side of each router interface. This 01:05PM 25 Internet Protocol Version 6 as 01:08PM 25 Version 6 as pecified by the IETF; correct? 01:08PM 26 Version 6 as 01:08PM 27 Version 6 as 01:08PM 27 Version 6 as 01:08PM 28 Version 6 as 01:08PM 29 Version 6 as 01:08PM 29 Version 6 as 01:08PM 20 Version 6 as 01:08PM 20 Version 6 as 01:08PM 20 Version 6 as 01:08PM 20 Version 6 as 01:08PM 20 Version 6 as 01:08PM 20 Version 6 as 01:08PM 20 Version 6 as 01:08PM 20 Version 6 as 01:08PM 20 Version 6 as 01:08PM 20 Version 6 as 01:08PM 20 Version 6 as 01:08PM 20 Version 6 as 01:08PM 20 Version 6 as 01:08PM 20 Version 6 as 01:08PM 20 Version 6 as 01:	22 Version 6 of the IP standard that's specified by the 01:03PM	22 Q Yes 01:06PM
25 Version 6 as specified in the RFC. 01:03PM Page 110 1 Q Right. 01:03PM 2 And in the command "ipv6 ospf cost," "ospf" 01:03PM 3 refers to Version 3 of the OSFF standard that's 01:03PM 4 specified by the IETF; correct? 01:03PM 5 A Correct. In this context, "ipv6" refers to 01:03PM 6 Version 3 of Internet RFC, yes. 01:04PM 7 Q And cost is a parameter that's described in the 01:04PM 8 OSFF specification; correct? 01:04PM 9 A 1 have to refer to that, if you have handy, if 01:04PM 10 you can point me. 01:04PM 11 Q Sure. 01:04PM 12 So if you go to the OSFF specification, which is 01:04PM 13 RFC 1131, which is Exhibit 01:04PM 14 A 56. 01:04PM 15 Q56 01:04PM 16 A Yeah. 01:05PM 17 Q - and look at the page that ends with the Bates 01:05PM 18 No. 6007. 01:05PM 19 A 6007. Okay. 01:05PM 20 Oyou see where it says, "A cost is associated 01:05PM 21 top of that page. 01:05PM 22 Do you see where it says, "A cost is associated 01:05PM 23 with the output side of each router interface. This 01:05PM 23 with the output side of each router interface. This 01:05PM 24 A Yes. It refers to Internet Protocol Version 6 as 01:08PM 25 No. 6007. Okay. 01:05PM 26 A Yes. It refers to Internet Protocol Version 6 as 01:08PM 27 No. 6007. Okay. 01:05PM 28 A Yes. It refers to Internet Protocol Version 6 as 01:08PM	23 IETF; correct? 01:03PM	23 Let's go on 1 suspect that your explanation is 01 07PM
Page 11 1 Q Right. 01:03PM 2 And in the command "ipv6 ospf cost," "ospf" 01:03PM 3 refers to Version 3 of the OSPF standard that's 01:03PM 4 specified by the IETF; correct? 01:03PM 5 A Correct. In this context, "ipv6" refers to 01:03PM 6 Version 3 of Internet RFC, yes. 01:04PM 7 Q And cost is a parameter that's described in the 01:04PM 8 OSPF specification; correct? 01:04PM 9 A I have to refer to that, if you have handy, if 01:04PM 10 you can point me. 01:04PM 11 Q Sure. 01:04PM 12 So if you go to the OSPF specification, which is 01:04PM 13 RFC 1131, which is Exhibit 01:04PM 14 A 56. 01:05PM 15 Q 56 01:04PM 16 A Yeah. 01:05PM 17 Q and look at the page that ends with the Bates 01:05PM 18 No. 6007. 01:05PM 19 A 6007. 01:05PM 20 Q I'm looking at the first full paragraph at the 01:05PM 21 top of that page. 01:05PM 22 Do you see where it says, "A cost is associated 01:05PM 23 with the output side of each router interface. This 01:05PM 24 Q If refer to lask of the record, I think we need 01:07PM 25 to just cover them all. 01:07PPM 26 to just cover them all. 01:07PPM 27 to just cover them all. 01:07PPM 28 to just cover them all. 01:07PPM 29 to just cover them all. 01:07PPM 4 Q If you go back to Exhibit 54, we are looking at 01:07PPM 5 page 16. 01:04PPM 7 Expression" column is "ipv6 ospf dead-interval"? 01:07PPM 7 Expression" column is "ipv6 ospf dead-interval"? 01:07PPM 10 indicated as the author, slash, originator with respect 01:07PPM 11 to that command expression? 01:07PPM 12 A Yes. 01:07PPM 13 Q Did you come up with the expression "ipv6 ospf 01:07PPM 14 dead-interval"? 01:07PPM 15 Q 66 01:04PPM 16 A Yeah. 01:05PPM 17 Q and look at the page that ends with the Bates 01:05PPM 18 command with the name "ip ospf dead-interval"? 01:08PPM 19 A 6007. 0kay. 01:05PPM 20 Q I'm looking at the first full paragraph at the 01:05PPM 21 top of that page. 01:05PPM 22 Version 6 as specified by the IETF; correct? 01:08PPM	24 A Correct. "ipv6" refers to Internet Protocol 01:03PM	24 going to be similar for this group of IPv6 commands 01:07PM
1 Q Right. 01:03PM 2 And in the command "ipv6 ospf cost," "ospf" 01:03PM 3 refers to Version 3 of the OSPF standard that's 01:03PM 4 specified by the IETF; correct? 01:03PM 5 A Correct. In this context, "ipv6" refers to 01:03PM 6 Version 3 of Internet RPC, yes. 01:04PM 7 Q And cost is a parameter that's described in the 01:04PM 8 OSPF specification; correct? 01:04PM 9 A I have to refer to that, if you have handy, if 01:04PM 10 you can point me. 01:04PM 11 Q Sure. 01:04PM 12 So if you go to the OSPF specification, which is 01:04PM 13 RFC 1131, which is Exhibit 01:04PM 14 A 56. 01:04PM 15 Q 56 01:04PM 16 A Yeah. 01:05PM 17 Q - and look at the page that ends with the Bates 01:05PM 18 No. 6007. 01:05PM 19 A 6007. Okay. 01:05PM 20 Q I'm looking at the first full paragraph at the 01:05PM 21 to po you see where it says, "A cost is associated 01:05PM 20 Do you see where it says, "A cost is associated 01:05PM 21 to pot out the output side of each router interface. This 01:05PM 21 with the output side of each router interface. This 01:05PM 21 with the output side of each router interface. This 01:05PM 21 with the output side of each router interface. This 01:05PM 21 with the output side of each router interface. This 01:05PM 22 Do you see where it says, "A cost is associated 01:05PM 3 RFC IT3I, which is Exhibit 01:04PM 4 Q If you go back to Exhibit 54, we are looking at 01:07PM 5 page 16. 01:04PM 7 Expression" column is "ipv6 ospf dead-interval"? 01:07PM 8 A Yes. 01:07PM 9 Q Okay. And do you see that Cisco and you are 01:07PM 11 to that command expression? 01:07PM 12 A Yes, I did. 01:07PM 13 Q Did you come up with the expression "ipv6 ospf 01:07PM 14 dead-interval," did you model it on a pre-existing 01:08PM 15 Q - and look at the page that ends with the Bates 01:05PM 16 Q And when you came up with the expression "ipv6 01:08PM 17 ospf dead-interval," did you model it on a pre-existing 01:08PM 18 command with the name "ip ospf dead-interval"? 01:08PM 19 A Yes. That was the dominant decision-maker, yes. 01:08PM	25 Version 6 as specified in the RFC. 01:03PM	25 A Yeah 01:07PM
2 And in the command "ipv6 ospf cost," "ospf" 01:03PM 3 refers to Version 3 of the OSPF standard that's 01:03PM 4 specified by the IETF; correct? 01:03PM 5 A Correct. In this context, "ipv6" refers to 01:03PM 5 A Correct. In this context, "ipv6" refers to 01:04PM 5 A Correct. In this context, "ipv6" refers to 01:04PM 6 Version 3 of Internet RFC, yes. 01:04PM 7 Q And cost is a parameter that's described in the 01:04PM 8 OSPF specification; correct? 01:04PM 8 OSPF specification; correct? 01:04PM 9 A I have to refer to that, if you have handy, if 01:04PM 10 you can point me. 01:04PM 10 you can point me. 01:04PM 11 to that command expression? 01:07PM 12 So if you go to the OSPF specification, which is 01:04PM 12 So if you go to the OSPF specification, which is 01:04PM 13 RFC 1131, which is Exhibit - 01:04PM 14 A 56. 01:04PM 15 Q 56 01:04PM 16 A Yeah. 01:05PM 16 Q - and look at the page that ends with the Bates 01:05PM 17 Q - and look at the page that ends with the Bates 01:05PM 18 No. 6007. 01:05PM 19 A 6007. 01:05PM 19 A 6007. Okay. 01:05PM 19 A 6007. Okay. 01:05PM 19 Do you see where it says, "A cost is associated 01:05PM 10 po you see where it says, "A cost is associated 01:05PM 10 po you see where it says, "A cost is associated 01:05PM 10 po you see where it says, "A cost is associated 01:05PM 10 po you see where it says, "A cost is associated 01:05PM 10 po you see where it says, "A cost is associated 01:05PM 10 po you see where it says, "A cost is associated 01:05PM 10 po you see where it says, "A cost is associated 01:05PM 10 po you see where it says, "A cost is associated 01:05PM 10 po you see where it says, "A cost is associated 01:05PM 10 po you see where it says, "A cost is associated 01:05PM 10 po you see where it says, "A cost is associated 01:05PM 10 po you see where it says, "A cost is associated 01:05PM 10 po you see where it says, "A cost is associated 01:05PM 10 po you you can be the correct them all. 01:05PM 10 poyou see the last entry there in the Command 01:00PPM 10 poyou see the last entr	Page 110	Page 112
3 refers to Version 3 of the OSPF standard that's 01:03PM 4 specified by the IETF; correct? 01:03PM 5 A Correct. In this context, "ipv6" refers to 01:03PM 6 Version 3 of Internet RFC, yes. 01:04PM 7 Q And cost is a parameter that's described in the 01:04PM 8 OSPF specification; correct? 01:04PM 9 A I have to refer to that, if you have handy, if 01:04PM 10 you can point me. 01:04PM 11 Q Sure. 01:04PM 12 So if you go to the OSPF specification, which is 01:04PM 13 RFC 1131, which is Exhibit 01:04PM 14 A 56. 01:04PM 15 Q 56 01:04PM 16 A Yeah. 01:05PM 17 Q and look at the page that ends with the Bates 01:05PM 18 No. 6007. 01:05PM 19 A 6007. Okay. 01:05PM 20 Q I'm looking at the first full paragraph at the 01:05PM 21 top of that page. 01:05PM 22 Do you see where it says, "A cost is associated 01:05PM 23 with the output side of each router interface. This 01:05PM 24 Q I'm looking at of each router interface. This 01:05PM 25 A Yes, It refers to Internet Protocol Version 6 as 01:08PM 26 Do you see the last entry there in the "Command 01:07PM 27 Expression" column is "ipv6 ospf dead-interval"? 01:07PM 28 A Yes. 01:07PM 29 Q Okay. And do you see that Cisco and you are 01:07PM 30 Q Okay. And do you see that Cisco and you are 01:07PM 31 to that command expression? 01:07PM 4 Q Yes. 01:07PM 4 Q Yes. 01:07PM 4 Q Yes. 01:07PM 4 Q I'm down you came up with the expression "ipv6 ospf 01:07PM 4 dead-interval," did you model it on a pre-existing 01:08PM 4 Q I'm looking at the first full paragraph at the 01:05PM 4 Q Okay. And in the command "ipv6 ospf 01:08PM 4 Q Okay. And in the command "ipv6 ospf 01:08PM 4 Q Okay. And in the command "ipv6 ospf 01:08PM 4 Q Version 6 as specified by the IETF; correct? 01:08PM 4 Q Version 6 as specified by the IETF; correct? 01:08PM	I Q Right. 01:03PM	1 Q But for the sake of the record, I think we need 01:07PM
4 specified by the IETF; correct? 01:03PM 5 A Correct. In this context, "ipv6" refers to 01:03PM 6 Version 3 of Internet RFC, yes. 01:04PM 7 Q And cost is a parameter that's described in the 01:04PM 8 OSPF specification; correct? 01:04PM 9 A 1 have to refer to that, if you have handy, if 01:04PM 10 you can point me. 01:04PM 11 Q Sure. 01:04PM 12 So if you go to the OSPF specification, which is 01:04PM 13 RFC 1131, which is Exhibit 01:04PM 14 A 56. 01:04PM 15 Q56 01:04PM 16 A Yeah. 01:05PM 17 Q and look at the page that ends with the Bates 01:05PM 18 No. 6007. 01:05PM 19 A 6007. Okay. 01:05PM 20 Q I'm looking at the first full paragraph at the 01:05PM 21 top of that page. 01:05PM 22 Do you see where it says, "A cost is associated 01:05PM 23 with the output side of each router interface. This 01:05PM 24 Q I'm top of that page. 01:05PM 25 A Correct. In this context, "ipv6" refers to Internet Protocol Version 6 as 01:08PM 26 Do you see the last entry there in the "Command 01:07PM 27 Expression" column is "ipv6 ospf dead-interval"? 01:07PM 28 A Yes. 01:07PM 29 Q Okay. And do you see that Cisco and you are 01:07PM 30 Indicated as the author, slash, originator with respect 01:07PM 31 to that command expression? 01:07PM 31 to that command expression? 01:07PM 32 Q Did you come up with the expression "ipv6 ospf 01:07PM 33 Q Did you come up with the expression "ipv6 ospf 01:07PM 4 A 56. 01:04PM 4 Q I'm you go back to Exhibit 54, we are looking at 01:07PM 5 page 16. 01:04PM 7 Expression" column is "ipv6 ospf dead-interval"? 01:07PM 8 A Yes. 01:07PM 9 Q Okay. And do you see that Cisco and you are 01:07PM 10 to that command expression? 10:07PM 11 to that command expression? 01:07PM 11 to that command expression? 01:07PM 12 A Yes. 01:07PM 13 Q Did you come up with the expression "ipv6 ospf 01:07PM 14 dead-interval"? 01:07PM 15 A Yes, I did. 01:07PM 16 Q And when you came up with the expression "ipv6 ospf 01:08PM 17 ospf dead-interval," did you model it on a pre-existing 01:08PM 18 command with the name "ip ospf de	2 And in the command "ipv6 ospf cost," "ospf" 01:03PM	2 to just cover them all. 01:07PM
5 A Correct. In this context, "ipv6" refers to 01:03PM 6 Version 3 of Internet RFC, yes. 01:04PM 7 Q And cost is a parameter that's described in the 01:04PM 8 OSPF specification; correct? 01:04PM 9 A 1 have to refer to that, if you have handy, if 01:04PM 10 you can point me. 01:04PM 11 Q Sure. 01:04PM 12 So if you go to the OSPF specification, which is 01:04PM 13 RFC 1131, which is Exhibit 01:04PM 14 A 56. 01:04PM 15 Q56 01:04PM 16 A Yeah. 01:05PM 17 Q and look at the page that ends with the Bates 01:05PM 18 No. 6007. 01:05PM 19 A 6007. Okay. 01:05PM 20 Q I'm looking at the first full paragraph at the 01:05PM 21 top of that page. 01:05PM 22 Do you see where it says, "A cost is associated 01:05PM 23 with the output side of each router interface. This 01:05PM 24 One of the page in the output side of each router interface. This 01:05PM 25 Q I'm looking at the first full paragraph at the 01:05PM 26 Q Do you see where it says, "A cost is associated 01:05PM 27 Q refers to Internet Protocol Version 6 as 01:08PM 28 A Yes. 01:07PM 29 Q Okay. And in the command "ipv6 ospf 01:07PM 10 indicated as the author, slash, originator with respect 01:07PM 11 to that command expression? 01:07PM 12 A Yes. 01:07PM 13 Q Did you come up with the expression "ipv6 ospf 01:07PM 14 dead-interval."? 01:07PM 15 A Yes, I did. 01:07PM 16 Q And when you came up with the expression "ipv6 opf 01:08PM 17 ospf dead-interval." did you model it on a pre-existing 01:08PM 18 command with the name "ip ospf dead-interval"? 01:08PM 19 A Yes. That was the dominant decision-maker, yes. 01:08PM 20 Q Okay. And in the command "ipv6 ospf 01:08PM 21 dead-interval." "ipv6" refers to Internet Protocol Version 6 as 01:08PM 22 Version 6 as specified by the IETF; correct? 01:08PM 23 With the output side of each router interface. This 01:05PM 24 A Yes. 11 refers to Internet Protocol Version 6 as 01:08PM	3 refers to Version 3 of the OSPF standard that's 01:03PM	3 A Yeah, please. 01:07PM
6 Version 3 of Internet RFC, yes. 01:04PM 7 Q And cost is a parameter that's described in the 01:04PM 8 OSPF specification; correct? 01:04PM 9 A 1 have to refer to that, if you have handy, if 01:04PM 10 you can point me. 01:04PM 11 Q Sure. 01:04PM 12 So if you go to the OSPF specification, which is 01:04PM 13 RFC 1131, which is Exhibit 14 A 56. 01:04PM 15 Q 56 01:04PM 16 A Yeah. 01:05PM 17 Q and look at the page that ends with the Bates 01:05PM 18 No. 6007. 01:05PM 19 A 6007. Okay. 01:05PM 10 Joyu see the last entry there in the "Command 01:07PM 17 Q and look at the first full paragraph at the 01:05PM 18 No. 6007. 01:05PM 19 A 6007. Okay. 01:05PM 10 Joyu see the last entry there in the "Command 01:07PM 11 to that command expression" column is "ipv6 ospf dead-interval"? 01:07PM 11 to that command expression? 01:07PM 12 A Yes. 01:07PM 13 Q Did you come up with the expression "ipv6 ospf 01:07PM 14 dead-interval"? 01:07PM 15 A Yes, I did. 01:07PM 16 Q and look at the page that ends with the Bates 01:05PM 17 ospf dead-interval," did you model it on a pre-existing 01:08PM 18 command with the name "ip ospf dead-interval"? 01:08PM 19 A Yes. 01:07PM 10 indicated as the author, slash, originator with respect 01:07PM 11 to that command expression? 01:07PM 12 dead-interval"? 01:07PM 13 Q Did you come up with the expression "ipv6 ospf 01:07PM 14 dead-interval," did you model it on a pre-existing 01:08PM 16 Q And when you came up with the expression "ipv6 ospf 01:08PM 17 ospf dead-interval," did you model it on a pre-existing 01:08PM 18 command with the name "ip ospf dead-interval"? 01:08PM 19 A Yes. 01:07PM 10 indicated as the author, slash, originator with respect 01:07PM 11 to that command expression? 01:07PM 12 dead-interval," did you model it on a pre-existing 01:08PM 17 ospf dead-interval," "ipv6" refers to Internet Protocol 01:08PM 18 command with the name "ip ospf dead-interval"? 01:08PM 19 A Yes. 01:07PM 10 indicated as the author, slash, originator with respect 01:07PM 16 dead-interval," "ipv6" re	4 specified by the IETF; correct? 01:03PM	4 Q If you go back to Exhibit 54, we are looking at 01:07PM
7 Q And cost is a parameter that's described in the 01:04PM 8 OSPF specification; correct? 01:04PM 8 OSPF specification; correct? 01:04PM 9 A 1 have to refer to that, if you have handy, if 01:04PM 10 you can point me. 01:04PM 10 indicated as the author, slash, originator with respect 01:07PM 11 Q Sure. 01:04PM 11 to that command expression? 01:07PM 12 So if you go to the OSPF specification, which is 01:04PM 13 RFC 1131, which is Exhibit 01:04PM 14 A 56. 01:04PM 15 Q 56 01:04PM 16 A Yeah. 01:05PM 17 Q and look at the page that ends with the Bates 01:05PM 16 Q And when you came up with the expression "ipv6 ospf 01:07PM 17 ospf dead-interval," did you model it on a pre-existing 01:08PM 18 No. 6007. 01:05PM 19 A 6007. Okay. 01:05PM 19 A 7 Yes. That was the dominant decision-maker, yes. 01:08PM 19 A 6007. Okay. 01:05PM 19 A Yes. That was the dominant decision-maker, yes. 01:08PM 19 Do you see where it says, "A cost is associated 01:05PM 20 Do you see where it says, "A cost is associated 01:05PM 22 Version 6 as specified by the IETF; correct? 01:08PM 23 with the output side of each router interface. This 01:05PM 23 A Yes. It refers to Internet Protocol Version 6 as 01:08PM	5 A Correct. In this context, "ipv6" refers to 01:03PM	5 page 16. 01:07PM
8 OSPF specification; correct? 01:04PM 9 A 1 have to refer to that, if you have handy, if 01:04PM 9 Q Okay. And do you see that Cisco and you are 01:07PM 10 you can point me. 01:04PM 10 indicated as the author, slash, originator with respect 01:07PM 11 to that command expression? 01:07PM 12 So if you go to the OSPF specification, which is 01:04PM 12 A Yes. 01:07PM 13 RFC 1131, which is Exhibit 01:04PM 13 Q Did you come up with the expression "ipv6 ospf 01:07PM 14 A 56. 01:04PM 15 Q 56 01:04PM 16 A Yeah. 01:05PM 17 Q and look at the page that ends with the Bates 01:05PM 16 Q And when you came up with the expression "ipv6 01:07PM 17 Ospf dead-interval," did you model it on a pre-existing 01:08PM 18 No. 6007. 01:05PM 18 command with the name "ip ospf dead-interval"? 01:08PM 19 A 6007. Okay. 01:05PM 19 A Yes. That was the dominant decision-maker, yes. 01:08PM 20 Q I'm looking at the first full paragraph at the 01:05PM 20 Q Okay. And in the command "ipv6 ospf 01:08PM 21 dead-interval," "ipv6" refers to Internet Protocol 01:08PM 22 Version 6 as specified by the IETF; correct? 01:08PM 22 Version 6 as specified by the IETF; correct? 01:08PM 23 with the output side of each router interface. This 01:05PM 23 A Yes. It refers to Internet Protocol Version 6 as 01:08PM	6 Version 3 of Internet RFC, yes. 01:04PM	6 Do you see the last entry there in the "Command 01:07PM
9 A 1 have to refer to that, if you have handy, if 01:04PM 10 you can point me. 01:04PM 11 Q Sure. 01:04PM 12 So if you go to the OSPF specification, which is 01:04PM 13 RFC 1131, which is Exhibit 01:04PM 14 A 56. 01:04PM 15 Q 56 01:04PM 16 A Yeah. 01:05PM 17 Q and look at the page that ends with the Bates 01:05PM 18 No. 6007. 01:05PM 19 A 6007. 01:05PM 10 indicated as the author, slash, originator with respect 01:07PM 11 to that command expression? 01:07PM 12 A Yes. 01:07PM 13 Q Did you come up with the expression "ipv6 ospf 01:07PM 14 dead-interval"? 01:07PM 15 Q and look at the page that ends with the Bates 01:05PM 16 Q And when you came up with the expression "ipv6 01:07PM 17 ospf dead-interval," did you model it on a pre-existing 01:08PM 18 command with the name "ip ospf dead-interval"? 01:08PM 19 A 6007. 0kay. 01:05PM 19 A Yes. That was the dominant decision-maker, yes. 01:08PM 20 Q I'm looking at the first full paragraph at the 01:05PM 21 top of that page. 01:05PM 22 Do you see where it says, "A cost is associated 01:05PM 23 with the output side of each router interface. This 01:05PM 23 With the output side of each router interface. This 01:05PM	7 Q And cost is a parameter that's described in the 01:04PM	7 Expression" column is "ipv6 ospf dead-interval"? 01:07PM
10 you can point me. 01:04PM 11 Q Sure. 01:04PM 12 So if you go to the OSPF specification, which is 01:04PM 13 RFC 1131, which is Exhibit 01:04PM 14 A 56. 01:04PM 15 Q 56 01:04PM 16 A Yeah. 01:05PM 17 Q and look at the page that ends with the Bates 01:05PM 18 No. 6007. 01:05PM 19 A 6007. Okay. 01:05PM 10 indicated as the author, slash, originator with respect 01:07PM 11 to that command expression? 01:04PM 12 A Yes. 01:07PM 13 Q Did you come up with the expression "ipv6 ospf 01:07PM 14 dead-interval"? 15 A Yes, I did. 16 Q And when you came up with the expression "ipv6 01:07PM 17 ospf dead-interval," did you model it on a pre-existing 01:08PM 18 command with the name "ip ospf dead-interval"? 19 A Yes. That was the dominant decision-maker, yes. 10:07PM 11 to that command expression? 12 A Yes. 13 Q Did you come up with the expression "ipv6 ospf 01:07PM 14 dead-interval." 15 A Yes, I did. 16 Q And when you came up with the expression "ipv6 01:08PM 17 ospf dead-interval." did you model it on a pre-existing 01:08PM 18 command with the name "ip ospf dead-interval"? 19 A Yes. That was the dominant decision-maker, yes. 10:08PM 20 Q Okay. And in the command "ipv6 ospf 01:08PM 21 dead-interval," "ipv6" refers to Internet Protocol 01:08PM 22 Version 6 as specified by the IETF; correct? 01:08PM 23 With the output side of each router interface. This 01:05PM 23 A Yes. It refers to Internet Protocol Version 6 as 01:08PM	8 OSPF specification; correct? 01:04PM	8 A Yes. 01:07PM
11 to that command expression? 01:07PM 12 So if you go to the OSPF specification, which is 01:04PM 13 RFC 1131, which is Exhibit 01:04PM 14 A 56. 01:04PM 15 Q 56 01:04PM 16 A Yeah. 01:05PM 17 Q and look at the page that ends with the Bates 01:05PM 18 No. 6007. 01:05PM 19 A 6007. 01:05PM 10 Q I'm looking at the first full paragraph at the 01:05PM 20 Q I'm looking at the first full paragraph at the 01:05PM 21 top of that page. 01:05PM 22 Do you see where it says, "A cost is associated 01:05PM 23 with the output side of each router interface. This 01:05PM 24 To spf dead-interval," did you model it on a pre-existing 01:08PM 25 Q Okay. And in the command "ipv6 ospf 01:08PM 26 Q I'm looking at the first full paragraph at the 01:05PM 27 Version 6 as specified by the IETF; correct? 01:08PM 28 Version 6 as specified by the IETF; correct? 01:08PM	9 A 1 have to refer to that, if you have handy, if 01:04PM	9 Q Okay. And do you see that Cisco and you are 01:07PM
So if you go to the OSPF specification, which is 01:04PM 13 RFC 1131, which is Exhibit 01:04PM 14 A 56. 01:04PM 15 Q 56 01:04PM 16 A Yeah. 01:05PM 17 Q and look at the page that ends with the Bates 01:05PM 18 No. 6007. 01:05PM 19 A 6007. Okay. 01:05PM 10 Q I'm looking at the first full paragraph at the 01:05PM 20 Q I'm looking at the first full paragraph at the 01:05PM 21 top of that page. 01:05PM 22 Do you see where it says, "A cost is associated 01:05PM 23 with the output side of each router interface. This 01:05PM 12 A Yes. 01:07PM 13 Q Did you come up with the expression "ipv6 ospf 01:07PM 14 dead-interval"? 01:07PM 15 A Yes, I did. 01:07PM 16 Q And when you came up with the expression "ipv6 01:07PM 17 ospf dead-interval," did you model it on a pre-existing 01:08PM 18 command with the name "ip ospf dead-interval"? 01:08PM 20 Q Okay. And in the command "ipv6 ospf 01:08PM 21 dead-interval," "ipv6" refers to Internet Protocol 01:08PM 22 Version 6 as specified by the IETF; correct? 01:08PM 23 A Yes. It refers to Internet Protocol Version 6 as 01:08PM	10 you can point me. 01:04PM	10 indicated as the author, slash, originator with respect 01:07PM
13 RFC 1131, which is Exhibit 01:04PM 14 A 56. 01:04PM 15 Q 56 01:04PM 16 A Yeah. 01:05PM 17 Q and look at the page that ends with the Bates 01:05PM 18 No. 6007. 01:05PM 19 A 6007. Okay. 01:05PM 19 Q I'm looking at the first full paragraph at the 01:05PM 20 Q I'm looking at the first full paragraph at the 01:05PM 21 top of that page. 01:05PM 22 Do you see where it says, "A cost is associated 01:05PM 23 with the output side of each router interface. This 01:05PM 24 dead-interval"? 01:07PM 15 A Yes, I did. 01:07PM 16 Q And when you came up with the expression "ipv6 ospf 01:07PM 17 ospf dead-interval," did you model it on a pre-existing 01:08PM 18 command with the name "ip ospf dead-interval"? 01:08PM 19 A Yes. That was the dominant decision-maker, yes. 01:08PM 20 Q Okay. And in the command "ipv6 ospf 01:08PM 21 dead-interval," "ipv6" refers to Internet Protocol 01:08PM 22 Version 6 as specified by the IETF; correct? 01:08PM 23 A Yes. It refers to Internet Protocol Version 6 as 01:08PM	11 Q Sure. 01:04PM	11 to that command expression? 01:07PM
14 A 56. 01:04PM 14 dead-interval"? 01:07PM 15 Q 56 01:04PM 15 A Yeah. 01:05PM 16 Q and look at the page that ends with the Bates 01:05PM 17 ospf dead-interval," did you model it on a pre-existing 01:08PM 18 No. 6007. 01:05PM 18 command with the name "ip ospf dead-interval"? 01:08PM 18 command with the name "ip ospf dead-interval"? 01:08PM 19 A Yes. That was the dominant decision-maker, yes. 01:08PM 20 Q I'm looking at the first full paragraph at the 01:05PM 20 Q Okay. And in the command "ipv6 ospf 01:08PM 21 top of that page. 01:05PM 21 dead-interval," "ipv6" refers to Internet Protocol 01:08PM 22 Version 6 as specified by the IETF; correct? 01:08PM 23 with the output side of each router interface. This 01:05PM 23 A Yes. It refers to Internet Protocol Version 6 as 01:08PM	So if you go to the OSPF specification, which is 01:04PM	12 A Yes. 01:07PM
15 Q 56 01:04PM 16 A Yeah. 01:05PM 17 Q and look at the page that ends with the Bates 01:05PM 18 No. 6007. 01:05PM 19 A 6007. Okay. 01:05PM 20 Q I'm looking at the first full paragraph at the 01:05PM 21 top of that page. 01:05PM 22 Do you see where it says, "A cost is associated 01:05PM 23 with the output side of each router interface. This 01:05PM 25 A Yes, I did. 01:07PM 16 Q And when you came up with the expression "ipv6 01:08PM 17 ospf dead-interval," did you model it on a pre-existing 01:08PM 18 command with the name "ip ospf dead-interval"? 01:08PM 19 A Yes. That was the dominant decision-maker, yes. 01:08PM 20 Q Okay. And in the command "ipv6 ospf 01:08PM 21 dead-interval," "ipv6" refers to Internet Protocol 01:08PM 22 Version 6 as specified by the IETF; correct? 01:08PM 23 A Yes. It refers to Internet Protocol Version 6 as 01:08PM	13 RFC 1131, which is Exhibit 01:04PM	13 Q Did you come up with the expression "ipv6 ospf 01:07PM
16 A Yeah. 01:05PM 17 Q and look at the page that ends with the Bates 01:05PM 18 No. 6007. 01:05PM 19 A 6007. 01:05PM 20 Q I'm looking at the first full paragraph at the 01:05PM 21 top of that page. 01:05PM 22 Do you see where it says, "A cost is associated 01:05PM 23 with the output side of each router interface. This 01:05PM 24 Q And when you came up with the expression "ipv6 01:05PM 17 ospf dead-interval," did you model it on a pre-existing 01:08PM 18 command with the name "ip ospf dead-interval"? 01:08PM 19 A Yes. That was the dominant decision-maker, yes. 01:08PM 20 Q Okay. And in the command "ipv6 ospf 01:08PM 21 dead-interval," "ipv6" refers to Internet Protocol 01:08PM 22 Version 6 as specified by the IETF; correct? 01:08PM 23 A Yes. It refers to Internet Protocol Version 6 as 01:08PM	14 A 56. 01:04PM	14 dead-interval"? 01:07PM
17 Q and look at the page that ends with the Bates 01:05PM 18 No. 6007. 01:05PM 18 command with the name "ip ospf dead-interval," 01:08PM 19 A 6007. Okay. 01:05PM 19 A Yes. That was the dominant decision-maker, yes. 01:08PM 20 Q I'm looking at the first full paragraph at the 01:05PM 20 Q lokay. And in the command "ipv6 ospf 01:08PM 21 top of that page. 01:05PM 21 dead-interval," "ipv6" refers to Internet Protocol 01:08PM 22 Do you see where it says, "A cost is associated 01:05PM 22 Version 6 as specified by the IETF; correct? 01:08PM 23 with the output side of each router interface. This 01:05PM 23 A Yes. It refers to Internet Protocol Version 6 as 01:08PM	15 Q 56 01:04PM	15 A Yes, I did. 01:07PM
18 No. 6007. 01:05PM 18 command with the name "ip ospf dead-interval"? 01:08PM 19 A 6007. Okay. 01:05PM 19 A Yes. That was the dominant decision-maker, yes. 01:08PM 20 Q I'm looking at the first full paragraph at the 01:05PM 20 Q Okay. And in the command "ipv6 ospf 01:08PM 21 top of that page. 01:05PM 21 dead-interval," "ipv6" refers to Internet Protocol 01:08PM 22 Do you see where it says, "A cost is associated 01:05PM 22 Version 6 as specified by the IETF; correct? 01:08PM 23 with the output side of each router interface. This 01:05PM 23 A Yes. It refers to Internet Protocol Version 6 as 01:08PM	16 A Yeah. 01:05PM	16 Q And when you came up with the expression "ipv6 01:07PM
19 A 6007. Okay. 01:05PM 20 Q I'm looking at the first full paragraph at the 01:05PM 21 top of that page. 01:05PM 22 Do you see where it says, "A cost is associated 01:05PM 23 with the output side of each router interface. This 01:05PM 24 O Q Okay. And in the command "ipv6 ospf 01:08PM 21 dead-interval," "ipv6" refers to Internet Protocol 01:08PM 22 Version 6 as specified by the IETF; correct? 01:08PM 23 A Yes. It refers to Internet Protocol Version 6 as 01:08PM	17 Q and look at the page that ends with the Bates 01:05PM	17 ospf dead-interval," did you model it on a pre-existing 01:08PM
20 Q I'm looking at the first full paragraph at the 01:05PM 21 top of that page. 01:05PM 22 Do you see where it says, "A cost is associated 01:05PM 23 with the output side of each router interface. This 01:05PM 24 Q Okay. And in the command "ipv6 ospf 01:08PM 21 dead-interval," "ipv6" refers to Internet Protocol 01:08PM 22 Version 6 as specified by the IETF; correct? 01:08PM 23 A Yes. It refers to Internet Protocol Version 6 as 01:08PM	18 No. 6007. 01:05PM	18 command with the name "ip ospf dead-interval"? 01:08PM
21 top of that page. 01:05PM 22 Do you see where it says, "A cost is associated 01:05PM 23 with the output side of each router interface. This 01:05PM 24 dead-interval," "ipv6" refers to Internet Protocol 01:08PM 25 dead-interval," "ipv6" refers to Internet Protocol 01:08PM 26 dead-interval, "ipv6" refers to Internet Protocol 01:08PM 27 dead-interval, in the output side of each router interface. This 01:05PM 28 dead-interval, in the output internet Protocol 01:08PM 29 dead-interval, in the output internet Protocol 01:08PM 20 dead-interval, in the output internet Protocol 01:08PM 21 dead-interval, in the output internet Protocol 01:08PM 22 dead-interval, in the output internet Protocol 01:08PM	19 A 6007. Okay. 01:05PM	19 A Yes. That was the dominant decision-maker, yes. 01:08PM
Do you see where it says, "A cost is associated 01:05PM 22 Version 6 as specified by the IETF; correct? 01:08PM 23 with the output side of each router interface. This 01:05PM 23 A Yes. It refers to Internet Protocol Version 6 as 01:08PM	20 Q I'm looking at the first full paragraph at the 01:05PM	20 Q Okay. And in the command "ipv6 ospf 01:08PM
23 with the output side of each router interface. This 01:05PM 23 A Yes. It refers to Internet Protocol Version 6 as 01:08PM	21 top of that page. 01:05PM	21 dead-interval," "ipv6" refers to Internet Protocol 01:08PM
23 with the output side of each router interface. This 01:05PM 23 A Yes. It refers to Internet Protocol Version 6 as 01:08PM	Do you see where it says, "A cost is associated 01:05PM	22 Version 6 as specified by the IETF; correct? 01:08PM
		•
24 cost is configurable by the system administrator. U1:05PM 24 specified in internet RFC. U1:08PM	24 cost is configurable by the system administrator." 01:05PM	24 specified in Internet RFC. 01:08PM
		-
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1 term "ospf" refers to the OSPF Version 3 standard 01:08PM	1 Version 2, or the IP OSPF, and, again, we have kept the 01:12PM
2 specified by the IETF; correct? 01:09PM	2 same flow and same same syntax 01:12PM
3 A Yes. In this context, "ipv6 ospf" refers to the 01:09PM	3 MR SILBERT: Right 01:12PM
4 OSPF Version 3 specification as specified in an Internet 01:09PM	4 Q And so just, if I understand your testimony 01:12PM
5 RFC. 01:09PM	5 correctly, you are saying that where the specification 01:12PM
6 Q Okay. And a dead interval is a parameter that's 01:09PM	6 uses the term "dead," space "interval," the command uses 01:12PM
7 described in the OSPF specification; right? 01:09PM	7 the term "dead," hyphen, "interval"? 01:12PM
8 A Not sure if you have do you have 01:09PM	8 MR NEUKOM: Objection; misstates the document 01:12PM
9 Q Yeah. It's, again, looking at the oh, that's 01:09PM	, ,
	9 or, pardon me, prior testimony and mischaracterizes the 01:12PM
10 the wrong one. The OSPF specification, which I should 01:09PM	
11 just keep in front of me okay, 56. 01:09PM	11 THE WITNESS: Yeah, so the Internet specification 01:12PM
12 A Yeah. Veah. 01:09PM	12 uses multiple ways It does use a variant, which is 01:12PM
13 Q And please look at the page that ends in Bates 01:09PM	13 dead, space, interval It also uses DeadInt 01:12PM
14 No. 683. 01:09PM	14 The Cisco implementation of IPv6 OSPF uses dead, 01:12PM
Do you see the section with the heading "A.4 The 01:10PM	15 hyphen, interval 01:12PM
16 Hello packet"? 01:10PM	16 BY MR SILBERT: 01:12PM
17 A Yes. 01:10PM	17 Q Okay Just just so we can save a little time, 01:12PM
18 Q I'm reading at the beginning of the second 01:10PM	18 do you and when we get to the next term, do you agree 01:13PM
19 paragraph. Do you see where it says: "All routers 01:10PM	19 that the OSPF specification describes something 01:13PM
20 connected to a common network must agree on certain 01:10PM	20 called a parameter called a Hello interval? 01:13PM
21 parameters (network mask, hello and dead intervals)." 01:10PM	21 A So on the same page, your 683, if you look at the 01:13PM
22 Do you see that? 01:10PM	22 packet, there is something called HelloInt, which is 01:13PM
23 A Yes, I see that. 01:10PM	23 Hello interval 01:13PM
24 Q Okay. So do you agree that a dead interval is a 01:10PM	24 Q Right 01:13PM
25 parameter that's described in the OSPF specification? 01:10PM	25 And also in the sentence above that I read 01:13PM
Page 114	Page 116
MR NEUKOM: Objection; document speaks for 01:10PM	1 previously, it says, "All routers connected to a common 01:13PM
2 itself 01:10PM	2 network must agree on certain parameters (network mask, 01:13PM
3 THE WITNESS: So if you if you look at the 01:10PM	
• •	· · · · · · · · · · · · · · · · · · ·
4 packet from that picture, there is one which is called 01:10PM 5 "DeadInt," and that's the packet format, and the 01:10PM	4 A Yes, that's another reference to it 01:13PM
	5 Q Okay Who else was on the team with you when you 01:13PM
6 document does refer to as "DeadInt," or dead interval, 01:11PM	6 came up with the expression "ipv6 ospf dead-interval"? 01:14PM
7 in multiple places 01:11PM	7 A It's the same set of people, but I don't remember 01:14PM
8 MR SILBERT: Right 01:11PM	8 a specific name at this point Pretty much all of this 01:14PM
9 Q Okay So in the command "ipv6 ospf 01:11PM	9 IPv6 OSPF command we did together at the same time 01:14PM
10 dead-interval," you are referring to the dead interval 01:11PM	10 Q Okay So is that 01;14PM
11 parameter using the same term that's used in the OSPF 01:11PM	11 A Same answer as before 01:14PM
12 specification; right? 01:11PM	12 Q Let me just ask you, and if it's not fair, just 01:14PM
13 MR NEUKOM: Objection; mischaracterizes the 01:11PM	13 say so, but is that answer going to be true for every 01:14PM
I4 document 01:11PM	14 one of these IPv6 OSPF commands? 01:I4PM
15 THE WITNESS: So dead, dash, interval, at least 01:11PM	15 A That is correct 01:14PM
16 from the quick scan, I'm not seeing that in the 01:11PM	16 Q Okay 01:14PM
17 document The document does use "DeadInt," or dead, 01:11PM	
18 space, interval, some of the other variants 01:11PM	17 A It's all done together, one time 01:14PM
• • • • • • • • • • • • • • • • • • • •	17 A It's all done together, one time 01:14PM 18 Q Okay Okay Let's just move to the next 01:14PM
19 BY MR SILBERT: 01:11PM	
	18 Q Okay Okay Let's just move to the next 01:14PM
19 BY MR SILBERT: 01:11PM	18 Q Okay Okay Let's just move to the next 01:14PM 19 command, which is "ipv6 ospfhello-interval" We are 01:14PM
19 BY MR SILBERT: 01:11PM 20 Q Okny So the variation in the command that you 01:11PM	18 Q Okay Okay Let's just move to the next 01:14PM 19 command, which is "ipv6 ospf hello-interval" We are 01:14PM 20 now on the next page of Exhibit 54, page 17 01:14PM
19 BY MR SILBERT: 01:11PM 20 Q Okny So the variation in the command that you 01:11PM 21 have identified is that you added a hyphen; right? 01:11PM	18 Q Okay Okay Let's just move to the next 01:14PM 19 command, which is "ipv6 ospf hello-interval" We are 01:14PM 20 now on the next page of Exhibit 54, page 17 01:14PM 21 Do you see that? 01:14PM 22 A Yes 01:14PM
19 BY MR SILBERT: 01:11PM 20 Q Okay So the variation in the command that you 01:11PM 21 have identified is that you added a hyphen; right? 01:11PM 22 MR NEUKOM: Objection; misstates the document 01:11PM 23 and misstates his prior testimony 01:11PM	18 Q Okay Okay Let's just move to the next 01:14PM 19 command, which is "ipv6 ospf hello-interval" We are 01:14PM 20 now on the next page of Exhibit 54, page 17 01:14PM 21 Do you see that? 01:14PM 22 A Yes 01:14PM 23 Q And Cisco and you, again, are indicated as the 01:14PM
19 BY MR SILBERT: 01:11PM 20 Q Okay So the variation in the command that you 01:11PM 21 have identified is that you added a hyphen; right? 01:11PM 22 MR NEUKOM: Objection; misstates the document 01:11PM 23 and misstates his prior testimony 01:11PM 24 THE WITNESS: Dead, hyphen, interval is how we 01:12PM	18 Q Okay Okay Let's just move to the next 01:14PM 19 command, which is "ipv6 ospfhello-interval" We are 01:14PM 20 now on the next page of Exhibit 54, page 17 01:14PM 21 Do you see that? 01:14PM 22 A Yes 01:14PM 23 Q And Cisco and you, again, are indicated as the 01:14PM 24 author, slash, originator with respect to that command 01:14PM
19 BY MR SILBERT: 01:11PM 20 Q Okay So the variation in the command that you 01:11PM 21 have identified is that you added a hyphen; right? 01:11PM 22 MR NEUKOM: Objection; misstates the document 01:11PM 23 and misstates his prior testimony 01:11PM 24 THE WITNESS: Dead, hyphen, interval is how we 01:12PM	18 Q Okay Okay Let's just move to the next 01:14PM 19 command, which is "ipv6 ospf hello-interval" We are 01:14PM 20 now on the next page of Exhibit 54, page 17 01:14PM 21 Do you see that? 01:14PM 22 A Yes 01:14PM 23 Q And Cisco and you, again, are indicated as the 01:14PM

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	1 A Yes. 01:14PM	1 Q Okay So other than the hyphen, there's 01:17PM
	2 MR. NEUKOM: Objection; mischaracterizes the 01:14PM	1 2 again, there's a difference here because 01:17PM
	3 document. 01:14PM	3 "hello-interval," in the command expression, is 01:17PM
.	4 MR. SILBERT: Man. Okay. 01:15PM	4 hyphenated, and the term "Hello interval" in the in 01:17PM
.	5 Q And did you come up with the expression "ipv6 01:15PM	5 the specification has a space instead of a hyphen; is 01:17PM
	6 ospf hello-interval"? 01:15PM	6 that is that it? 01:17PM
1	7 A Yes. I think we are repeating it for all 01:15PM	7 MR NEUKOM: Objection; mischaracterizes the 01:17PM
	8 commands. It's one document. It was all done together, 01:15PM	-
1 9	9 but that's it. 01:15PM	9 THE WITNESS: This command implements the 01:17PM
10		10 functionality as specified by either HelloInt or Hello, 01:17PM
1		11 space, interval 01:17PM
12	•	12 BY MR SILBERT: 01:17PM
1	3 comment generally intended to be helpful. 1 think when 01:15PM	
	the witness is saying it's all one document, he's not 01:15PM	14 "Ipv6 ospf network," which is the next command on 01:17PM
	5 referring to Exhibit 54. He's, rather, talking to the 01:15PM	15 page 17 of Exhibit 54, again, you came up with that 01:18PM
1	6 Bates-stamp number, which is included in the 01:15PM	
1	7 earliest-known document. 01:15PM	16 command expression; is that correct? 01:18PM
18		17 A Yes, I did 01:18PM
ı		
1	O referring to. 01:15PM	19 "ipv6 ospf network," did you model it on a pre-existing 01:18PM
20	•	20 command with a name "ip ospf network"? 01:18PM
	BY MR. SILBERT: 01:15PM	21 A Yes That is the dominant reason to make this 01:18PM
22		
١	hello-interval," did you model it on a pre-existing 01:15PM	23 Q Okay And what's the function of this command, 01:18PM
24	• •	24 incidentally, "ipv6 ospf network"? 01:18PM
25	A Yeah, it's the same answer. That was our 01:15PM Page 118	25 A So this is a interface scope command Interfaces 01:18PM
-	r age 110	Page 120
1	dominant reason to choose this set of keywords. 01:16PM	1 are of different type. There are interfaces which are 01:19PM
2	Q And in the command "ipv6 ospf hello-interval," 01:16PM	2 used to connect two devices together, which are known as 01:19PM
3	does "ipv6" refer to Internet Protocol Version 6 as 01:16PM	3 point-to-point interfaces, or there are interfaces which 01:19PM
4	specified by the IETF? 01:16PM	4 are used to connect one to many. Those are broadcast 01:19PM
5	A Yes, and "ipv6" refers to Internet Protocol 01:16PM	5 interfaces, and there are others. I'll not get into the 01:19PM
6	Version 6 RFC 01:16PM	!
	0.01	6 comprehensive list. 01:19PM
7	Q Okay sorry, I didn't mean to interrupt you. 01:16PM	6 comprehensive list. 01:19PM 7 This command will let you choose what type of 01:19PM
7 8	A That's okay. 01:16PM	·
		7 This command will let you choose what type of 01:19PM
8 9	A That's okay. 01:16PM	7 This command will let you choose what type of 01:19PM 8 network you are connecting to. Are you connecting to, 01:19PM
8 9 10	A That's okay. 01:16PM Q And in the command "ipv6 ospf hello-interval," 01:16PM	7 This command will let you choose what type of 01:19PM 8 network you are connecting to. Are you connecting to, 01:19PM 9 again, a point-to-point-type circuit or a broadcast-type 01:19PM
8 9 10	A That's okay. 01:16PM Q And in the command "ipv6 ospf hello-interval," 01:16PM does the term "ospf" refer to OSPF Version 3 as 01:16PM	7 This command will let you choose what type of 01:19PM 8 network you are connecting to. Are you connecting to, 01:19PM 9 again, a point-to-point-type circuit or a broadcast-type 01:19PM 10 circuit or other possible types of circuit? 01:19PM
8 9 10 11 12	A That's okay. 01:16PM Q And in the command "ipv6 ospf hello-interval," 01:16PM does the term "ospf" refer to OSPF Version 3 as 01:16PM specified by the IETF? 01:16PM	7 This command will let you choose what type of 01:19PM 8 network you are connecting to. Are you connecting to, 01:19PM 9 again, a point-to-point-type circuit or a broadcast-type 01:19PM 10 circuit or other possible types of circuit? 01:19PM 11 Q Okay. And choosing what type of network you are 01:19PM
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8 9 10 11 12 13 14 15	A That's okay. 01:16PM Q And in the command "ipv6 ospf hello-interval," 01:16PM does the term "ospf" refer to OSPF Version 3 as 01:16PM specified by the IETF? 01:16PM A Yes. In the context of IPv6 OSPF, it refers to 01:16PM OSPF Version 3, which is an RFC. 01:16PM Q Okay. And in the command "ipv6 ospf 01:16PM	7 This command will let you choose what type of 01:19PM 8 network you are connecting to. Are you connecting to, 01:19PM 9 again, a point-to-point-type circuit or a broadcast-type 01:19PM 10 circuit or other possible types of circuit? 01:19PM 11 Q Okay. And choosing what type of network you are 01:19PM 12 connecting to is something that's described in the OSPF 01:19PM 13 standard; is that correct? 01:19PM 14 A OSPF standard describes procedure for different 01:19PM 15 type of interconnections. So, for example, there 1 01:20PM
8 9 10 11 12 13 14 15	A That's okay. 01:16PM Q And in the command "ipv6 ospf hello-interval," 01:16PM does the term "ospf" refer to OSPF Version 3 as 01:16PM specified by the IETF? 01:16PM A Yes. In the context of IPv6 OSPF, it refers to 01:16PM OSPF Version 3, which is an RFC. 01:16PM Q Okay. And in the command "ipv6 ospf 01:16PM hello-interval," does "hello-interval" refer to a 01:16PM parameter that the OSPF specification describes as a 01:16PM	7 This command will let you choose what type of 01:19PM 8 network you are connecting to. Are you connecting to, 01:19PM 9 again, a point-to-point-type circuit or a broadcast-type 01:19PM 10 circuit or other possible types of circuit? 01:19PM 11 Q Okay. And choosing what type of network you are 01:19PM 12 connecting to is something that's described in the OSPF 01:19PM 13 standard; is that correct? 01:19PM 14 A OSPF standard describes procedure for different 01:19PM 15 type of interconnections. So, for example, there 1 01:20PM 16 can look deeper into it, but there might be sections 01:20PM
8 9 10 11 12 13 14 15 16 17	A That's okay. Q And in the command "ipv6 ospf hello-interval," 01:16PM does the term "ospf" refer to OSPF Version 3 as 01:16PM specified by the IETF? 01:16PM A Yes. In the context of IPv6 OSPF, it refers to 01:16PM OSPF Version 3, which is an RFC. 01:16PM Q Okay. And in the command "ipv6 ospf 01:16PM hello-interval," does "hello-interval" refer to a 01:16PM parameter that the OSPF specification describes as a 01:16PM Hello interval? 01:17PM	7 This command will let you choose what type of 01:19PM 8 network you are connecting to. Are you connecting to, 01:19PM 9 again, a point-to-point-type circuit or a broadcast-type 01:19PM 10 circuit or other possible types of circuit? 01:19PM 11 Q Okay. And choosing what type of network you are 01:19PM 12 connecting to is something that's described in the OSPF 01:19PM 13 standard; is that correct? 01:19PM 14 A OSPF standard describes procedure for different 01:19PM 15 type of interconnections. So, for example, there 1 01:20PM 16 can look deeper into it, but there might be sections 01:20PM 17 which will describe if you are connecting in a 01:20PM
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8 9 10 11 12 13 14 15 16 17 18 19 20	A That's okay. Q And in the command "ipv6 ospf hello-interval," 01:16PM does the term "ospf" refer to OSPF Version 3 as 01:16PM specified by the IETF? 01:16PM A Yes. In the context of IPv6 OSPF, it refers to 01:16PM OSPF Version 3, which is an RFC. 01:16PM Q Okay. And in the command "ipv6 ospf 01:16PM hello-interval," does "hello-interval" refer to a 01:16PM parameter that the OSPF specification describes as a 01:16PM Hello interval? 01:17PM MR. NEUKOM: Objection; mischaracterizes the 01:17PM document. 01:17PM THE WITNESS: So Hello, hyphen, interval, you can 01:17PM	7 This command will let you choose what type of 01:19PM 8 network you are connecting to. Are you connecting to, 01:19PM 9 again, a point-to-point-type circuit or a broadcast-type 01:19PM 10 circuit or other possible types of circuit? 01:19PM 11 Q Okay. And choosing what type of network you are 01:19PM 12 connecting to is something that's described in the OSPF 01:19PM 13 standard; is that correct? 01:19PM 14 A OSPF standard describes procedure for different 01:19PM 15 type of interconnections. So, for example, there 1 01:20PM 16 can look deeper into it, but there might be sections 01:20PM 17 which will describe if you are connecting in a 01:20PM 18 point-to-point sense, these are the procedures you 01:20PM 19 should be implementing, or if you are if you are 01:20PM 20 connecting to a one-too-many-type circuit, these are the 01:20PM
8 9 10 11 12 13 14 15 16 17 18 19 20 21	A That's okay. Q And in the command "ipv6 ospf hello-interval," 01:16PM does the term "ospf" refer to OSPF Version 3 as 01:16PM specified by the IETF? 01:16PM A Yes. In the context of IPv6 OSPF, it refers to 01:16PM OSPF Version 3, which is an RFC. 01:16PM Q Okay. And in the command "ipv6 ospf 01:16PM hello-interval," does "hello-interval" refer to a 01:16PM parameter that the OSPF specification describes as a 01:16PM Hello interval? 01:17PM MR. NEUKOM: Objection; mischaracterizes the 01:17PM document. 01:17PM THE WITNESS: So Hello, hyphen, interval, you can 01:17PM map it to what the the RFC is saying in terms of 01:17PM	7 This command will let you choose what type of 01:19PM 8 network you are connecting to. Are you connecting to, 01:19PM 9 again, a point-to-point-type circuit or a broadcast-type 01:19PM 10 circuit or other possible types of circuit? 01:19PM 11 Q Okay. And choosing what type of network you are 01:19PM 12 connecting to is something that's described in the OSPF 01:19PM 13 standard; is that correct? 01:19PM 14 A OSPF standard describes procedure for different 01:19PM 15 type of interconnections. So, for example, there 1 01:20PM 16 can look deeper into it, but there might be sections 01:20PM 17 which will describe if you are connecting in a 01:20PM 18 point-to-point sense, these are the procedures you 01:20PM 19 should be implementing, or if you are if you are 01:20PM 20 connecting to a one-too-many-type circuit, these are the 01:20PM 21 procedures you should be implementing, so the RFC 01:20PM
8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	A That's okay. Q And in the command "ipv6 ospf hello-interval," 01:16PM does the term "ospf" refer to OSPF Version 3 as 01:16PM specified by the IETF? 01:16PM A Yes. In the context of IPv6 OSPF, it refers to 01:16PM OSPF Version 3, which is an RFC. 01:16PM Q Okay. And in the command "ipv6 ospf 01:16PM hello-interval," does "hello-interval" refer to a 01:16PM parameter that the OSPF specification describes as a 01:16PM Hello interval? 01:17PM MR. NEUKOM: Objection; mischaracterizes the 01:17PM document. 01:17PM THE WITNESS: So Hello, hyphen, interval, you can 01:17PM map it to what the the RFC is saying in terms of 01:17PM HelloInt or Hello, space, interval. 01:17PM	This command will let you choose what type of 01:19PM 8 network you are connecting to. Are you connecting to, 01:19PM 9 again, a point-to-point-type circuit or a broadcast-type 01:19PM 10 circuit or other possible types of circuit? 01:19PM 11 Q Okay. And choosing what type of network you are 01:19PM 12 connecting to is something that's described in the OSPF 01:19PM 13 standard; is that correct? 01:19PM 14 A OSPF standard describes procedure for different 01:19PM 15 type of interconnections. So, for example, there1 01:20PM 16 can look deeper into it, but there might be sections 01:20PM 17 which will describe if you are connecting in a 01:20PM 18 point-to-point sense, these are the procedures you 01:20PM 19 should be implementing, or if you are if you are 01:20PM 20 connecting to a one-too-many-type circuit, these are the 01:20PM 21 procedures you should be implementing, so the RFC 01:20PM 22 describes the procedures, and we will have Cisco has 01:20PM
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	A So 04:46PM	1	
1 2		2	
1 3		I, the undersigned, a Certified Shorthand	
4	•	4 Reporter of the State of California, do hereby	certify:
5	•	5 That the foregoing proceedings were taker	-
1 6		6 me at the time and place herein set forth; that a	
7		witnesses in the foregoing proceedings, prior to	-
8	-	8 testifying, were placed under oath; that a verba	
	• • •	record of the proceedings was made by me using	
19			_
10	,	shorthand which was thereafter transcribed und	•
11		direction; further, that the foregoing is an accur	rate
12		2 transcription thereof.	
13	your time and attention, and I'm concluding the 04:47PM	I further certify that I am neither financial	
14	•	interested in the action nor a relative or employ	ee of
15	THE WITNESS: Sure Thanks 04:47PM	any attorney or any of the parties.	
16	MR NEUKOM: No direct 04:47PM	5 IN WITNESS WHEREOF, I have this date	e subscribed
17	THE VIDEOGRAPHER: Okay 04:47PM	ny name.	
18	MR NEUKOM: At this time 04:47PM	3	
19	THE VIDEOGRAPHER: This concludes today's 04:47PM	Dated: December 30, 2015	
20	deposition of Abhay Roy The number of media used was 04:47PM)	
21	three and will be retained by Veritext Legal Solutions 04:47PM		
22	The time is 4:47 p m We are off the record 04:47PM		
23	(TIME NOTED: 4:47 P M)	<%signature%>	
24		RACHEL FERRIER	
25		CSR No. 6948	
	Page 230		Page 232
3 4 5 6 7	I, ABHAY ROY, do hereby declare under penalty of perjury that I have read the foregoing transcript; that I have made any corrections as appear noted, in ink, initialed by me, or attached hereto; that my testimony as contained herein, as corrected, is true and correct. EXECUTED this day of, (City) (State) ABHAY ROY VOLUME 1		
21			
22			
23			
24			
25	Page 231		
	1 480 251		

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1	UNITED STATES DISTRICT COURT		
2	NORTHERN DISTRICT OF CALIFORNIA		
3	SAN JOSE DIVISION		
4			
	x Case No.		
5	: 5:14-cv-05344-BLF (PSG)		
	;		
6	CISCO SYSTEMS, INC., :		
	:		
7	Plaintiff, :		
	·		
8	vs.		
	:		
9	ARISTA NETWORKS, INC., :		
	•		
10	Defendant. :		
11	x		
12			
13	VIDEOTAPED DEPOSITION OF GREG SATZ		
14	March 23, 2016		
15	HIGHLY CONFIDENTIAL - ATTORNEYS' EYES ONLY		
16	VOLUME 1		
17			
18			
19			
20			
21	Reported by		
22	Brooke R. Bohr		
23	CSR No. 753		
24	Job No 2272380		
25	Pages 1 - 168		
	Page 1		

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3	· ·	2	March 23, 2016, 10:10 a.m.		
4		3			
5		4	THE VIDEOGRAPHER: We are now on the record.		
6		5	Please note that the microphones are		
7		6	sensitive and may pick up whispering and private		
8	• •	7	conversations. Please turn off all cell phones or		
9					
10		8	place them away from the microphones as they can		
11 12	A P P E A R A N C E S FOR PLAINTIFF	9	interfere with the deposition audio. Recording		
12	John M. Neukom, Esq.	10	will continue until all parties agree to go off		
13	QUINN EMAMUEL URQUHART & SULLIVAN LL	11	record.		
	50 California Street, 22nd Floor	12	My name is David Cromwell, representing		
14	· · · · · · · · · · · · · · · · · · ·	13	Veritext. The date today is March 23, 2016, and		
	(415) 875-6320	14	the time is approximately 10:10 a m. This		
15	johnneukom@quinnemanuel.com	15	deposition is being held at Tucker & Associates		
16	FOR DEFENDANT Brian L. Ferrall, Esq.	16	located at 605 West Fort Street, Boise, Idaho		
17	KEKER & VAN NEST LLP	17	83702, and is being taken by counsel for the		
1	633 Battery Street	18	defendant.		
18	San Francisco, CA 94111	19			
	(415) 391-5400	ļ	The caption of this case is Cisco		
19	bferrall@kvn.com	20	Systems, Inc. v. Arista Networks, Inc. This case		
20		21	is filed in the United States District Court,		
21		22	Northern District of California, San Jose		
23		23	Division, Case No. 5:14-CV-05344-BLF PSG. The		
24		24	name of the witness is Greg Satz.		
25		25	At this time, the attorneys present in		
	Page 2		Page 4		
1	WITNESS	1	the room will identify themselves and the parties		
2	GREG SATZ Page:	2	they represent.		
3 4	Examination by Mr. Ferrall 5 Examination by Mr. Neukom 15I	3	MR, FERRALL: Brian Ferrall of Keker &		
5	Further Examination by Mr. Ferrall 158				
6	·	4	Van Nest on behalf of Arista Networks.		
7	* * * * *	5	MR. NEUKOM: John Neukom for the plaintiff.		
7 8	EXHIBITS	6	THE COURT: Our court reporter, Brooke Bohr,		
9		7	representing Veritext, will swear in the witness,		
	Page:	8	and we can proceed.		
10	Exhibit 400 Greg Satz LinkedIn 13	9			
	Exhibit 401 "TOPS-20 DECnet-20 Programmers 22	10	GREG SATZ,		
	Guide and Operations Manual"	11	produced as a witness at the instance of the		
13	Exhibit 402 One-page Document with 36	12	Defendant, having been first duly sworn, was		
14	Exhibit 402 One-page Document with 36 Bates No. KL-883	13	examined and testified as follows:		
	Exhibit 403 Document Beginning Bates No. 69	14	THE PARTY OF THE PARTY OF TAXABLE PARTY OF THE PARTY OF TAXABLE PARTY OF T		
10	ARISTANDCA00022465	15	EXAMINATION		
16	Exhibit 404 Document Beginning Bates No. 84				
17	CSI-CLI-00359132	16	BY MR. FERRALL:		
	Exhibit 405 One-page Document Bates No. 106	17	Q. Good morning, Mr. Satz. Can you please		
	CSI-CLI-00746924	18	state your full name.		
10		19	A. Greg Leonard Satz.		
19	Exhibit 406 Document Bates No. CSI-CLI-01828732 112		0 34 04		
20	Through Bates No. CSI-CLI-01828783	20	Q. Mr. Satz, you are not represented by		
20	Through Bates No. CSI-CLI-01828783 Exhibit 407 Document Beginning Bates No. 141	20 21	counsel today; is that right?		
20 21	Through Bates No. CSI-CLI-01828783				
20 21 22	Through Bates No. CSI-CLI-01828783 Exhibit 407 Document Beginning Bates No. 141	21	counsel today; is that right? A. Correct.		
20 21 22 23	Through Bates No. CSI-CLI-01828783 Exhibit 407 Document Beginning Bates No. 141 CSI-CLI-01295215	21 22 23	counsel today; is that right? A. Correct. Q. Have you ever been deposed before?		
20 21 22 23 24	Through Bates No. CSI-CLI-01828783 Exhibit 407 Document Beginning Bates No. 141 CSI-CLI-01295215 Exhibit 408 Document Beginning Bates No. 143	21 22 23 24	counsel today; is that right? A. Correct. Q. Have you ever been deposed before? A. I have.		
20 21 22 23	Through Bates No. CSI-CLI-01828783 Exhibit 407 Document Beginning Bates No. 141 CSI-CLI-01295215 Exhibit 408 Document Beginning Bates No. 143 CSI-CLI-01295181	21 22 23	counsel today; is that right? A. Correct. Q. Have you ever been deposed before?		

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1 did, while it had the same capability, was more 2 robust, had a higher performance capability. 3 Because as the networks covled, you neceded to be 4 able to push data faster. And Stanford's code was 5 basic. It was there to just move the data, not 6 move it with the requirements that the next few 7 years dictated. And a lot of what Kirk did was to 8 create high-speed interfaces, and that's what 9 Wellfleet showed up to compete on was could they 19 go flister than Cisco. And it created an arms 11 race, as it were. Who could go faster. 12 Q. Now, you mentioned IETF, and I think 13 earlier today you mentioned IETF, and I think 14 what an RFC is? 15 A. Request for comments. 16 Q. And what's the purpose of a request for 17 comment? 18 A. To create a protocol definition or 19 solution and tripal solution and a trial solution and a trial solution and a trial solution and a trial solution, as the solution progressed 12 through a community and an implementation and a 12 trial and then some feedback. So it was an 12 engineering group. Their goal was to deliver 12 as - to competitive advantages. But the 13 standards body existed to create a level playing 14 field. 15 Q. And did yon have a view at the time as 16 to the importance of publishing technology through 17 RFCs? Well, let me strike that. That was a 18 garbfed question. 19 In your experience at Cisco in the 19 and you was, was the sharing off echnology through 18 RFCs important to Cisco? 19 MR. NEUKOM: Objection; vague, compound, and 19 lack of floundation. 10 In your experience at Cisco in the 10 early yours, was the sharing off echnology through 11 RFCs important to Cisco? 12 MR. NEUKOM: Objection; vague, compound, and 13 lack of floundation. 14 THE WITNESS: Back then it wasn't clear how 15 successful Cisco would be and make it a community and the decide whether to make it an RFC later. Most 16 the ceited whether to make it an RFC later. Most 17 the creating was a series of tradosoffs in the 18 decision to create an RFC and make it a community and the decide wh	_			
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1 document, at least a year. 1 called an SNMP community. 2 Q. And do you remember any particular 2 Do you see that? 3 3 parts that you contributed, specifically? A. Yes. 4 A. I think I did an RFC for a MIB for 4 Q. Is that consistent with your definition 5 CLNS, another protocol stack that since 5 of SNMP community that you just described? 6 disappeared. 6 A. Yeah. It's more mind-numbing when you 7 see it in words. 7 Q. Was there a -- have you ever heard of 8 the term "SNMP server"? 8 Q. I couldn't agree more. 9 A. Oh, the command line, parsed for the --9 A. Yeah. It turns out a lot of these yeah -- configuration? Um-hum. Yes, I created things are written to be really obtuse. They are 10 10 11 that. 11 not intended to be obtuse, but they have a 12 O. What's -- is there such a thing as an 12 structure to them that when you turn it into SNMP server, or what does that term mean? 13 13 English or a simple picture it takes a lot of this 14 A. Wow. 14 out. They tried to make a more generic 15 MR. NEUKOM: Objection; lack of foundation, 15 mathematical underpinning to a mapping that added a level of complexity that just ultimately wasn't calls for opinion testimony. 16 16 17 THE WITNESS: I think all of that code is 17 necessary. But they were trying to be very 18 gone now. The SNMP server was the way to tell the 18 flexible. 19 router software that it was to be an SNMP -- it 19 Q. Okay. But this notion of community as 20 was to start the SNMP protocol. So it would then 20 described in the Exhibit 403 is the same as the 21 begin to listen to and process SNMP packets. And 21 community that you understood when you --22 22 it was probably one of the first commands A. I made the implementation simpler 23 implemented as part of this RFC to implement it 23 because of adding a whole layer. The idea, if I 24 and create an SNMP protocol within the Cisco 24 can remember any of this craziness, is that you 25 software. 25 would have a table of -- no different than a Page 72 Page 70 1 MR. NEUKOM: And, Brian, I rescind my prior 1 database in today's language -- and you could be able pull out individual things. And so they 2 objection. Pardon me. 2 3 THE WITNESS: Hey, just because I write it, 3 wanted to be able to map authorizations to 4 doesn't mean I'm the expert. 4 individual entries in the database. And the 5 MR. FERRALL: You can't -- you can't 5 implementation I did was to make it an all or rescind. No rescinding objections, Mr. Neukom. 6 6 nothing. Because if somebody wanted that level of 7 Q. BY MR. FERRALL: What's -- what's the 7 specificity they'd ask for it and then we'd go 8 back and put all that crazy complexity into the 8 notion of community in the context of SNMP? 9 A. After a while, you start running out of 9 code. But just because the standard made it that 10 10 words, so you pick one that tries to create a flexible we weren't going to go that far. It was 11 sense of purpose. And so "community" was an 11 an engineering choice and cost benefit. 12 12 attempt to describe a collection of users who Yeah, I don't know if you've ever heard of Vint Cerf? 13 13 would have a specific purpose with respect to 14 using the protocol. It was nothing more than an 14 Q. Sure. 15 authorization or an access. A password, as it 15 A. So one of the more inspiring aspects of this work, we had three different protocols 16 16 17 Q. So if you look at Page 7 of this 17 compete to be the network management RFC, and so Exhibit 403. there was just three groups of engineers that were 18 MR. NEUKOM: Sorry. Which page are we on? 19 19 not happy, or wanted their choice. And I watched 20 MR. FERRALL: Page 7. 20 Vint come in and broker a -- mediate, and I had 21 Q. BY MR. FERRALL: If you see under 21 never seen that kind of mediation happen before, 22 22 Section 3.2.5, Definition of Administrative let alone difficult engineers. And so it was a 23 23 very inspiring time to watch somebody. And then Relationships, and then the second paragraph there 24 says, quote, appearing of an SNMP agent with some 24 so, you know, Vint was the author of a lot of the 25 arbitrary set of SNMP application entities is TCP/IP protocols. So people respected him and Page 71

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1	1 0	1	REPORTER'S CERTIFICATE
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4		4	I, BROOKE R. BOHR, a Notary Public in
5		5	and for the State of Idaho, do hereby certify:
6	.	i i	That prior to being examined, the
7	•	7	witness named in the foregoing deposition was by
8		8	me duly sworn to testify the truth, the whole
10		9	truth, and nothing but the truth;
ł	S	10	That said deposition was taken down by
11 12		11 12	me in shorthand at the time and place therein
13		13	named and thereafter reduced into typewriting under my direction, and that the foregoing
14	١	14	transcript contains a full, true, and verbatim
15	` 1	15	record of the said deposition.
16	· · · · · · · · · · · · · · · · · · ·	16	I further certify that I have no
17		17	interest in the event of the action.
18		18	WITNESS my hand and seal March 30, 2016
19		19	WITHESS my hand and soul majon 30, 2010.
20		20	
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23		23	<%signature%>
24		24	Brooke R. Bohr
25		25	CSR No. 753
	Page 166		Page 168
1	VERIFICATION		
2	I declare under penalty of perjury		
3	under the laws that the foregoing is		
4	true and correct.		
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